

Subject Index

Volume 30

- Absorption
intestinal cholesterol in rats, effect of
alfalfa saponins on, 2061
- iron
from Southeast Asian diets, 539
vitamin C and common colds, 235
- of zinc in diet, 873
- phosphorus, in man, 1064
- zinc, in rat, through skin, 528
- Absorption rates, of L-histidine and glycyl-glycine, from human jejunum, 1994
- Acid
bile, in jejunostomy patients, 21
4-pyridoxic excretions, and vitamin B₆ intakes in children, 2023
- serum uric, level of Thai individuals, 2122
- tetrahydrofolic, reaction with cyanate from urea solutions, 2028
- Adaptation
intestinal, after jejunostomy bypass in man, 32
- metabolic, to hypocaloric nutrition, 160
- Adipose tissue, development in man, 762
- Adipose tissue lipoprotein lipase, activity, effect on, with hyperlipidemic patients supplemented with vitamin E, 517
- Adiposity, relationship between frequency of eating and, 712
- Adolescents, boys, protein nutrition in, 371
- Adoption, late, and early malnutrition, 1734
- Adrenergic mechanisms, in infection, 1285
- Aging, endurance training and body composition of elderly, 326
- Alanine, oral loads, effect of, on serum triglycerides of oral contraceptive users and normals subjects, 691
- Alfalfa saponins, effect on intestinal cholesterol absorption in rats, 2061
- Alimentation, newer products and formulas, 1498
- Allergic potential, of food additives, 1023
- Allergy, food, diagnostic method for, 512
- Ames salmonella, mutants, in gastrointestinal tract of gnotobiotic rats, 1921
- Amino acid intake, in newborns, 1110
- Amino acid maintenance, of women and rats fed dietary amino acid patterns, 932
- Amino acids
dietary, 932
effect on rat offspring, 191
in breast milk, 499
- in host response to infection, 1269
- oral supplementation on liver disease after jejunostomy bypass for morbid obesity, 58
- peripheral, failure of infection to increase nitrogen extraction in patients maintained on, 1523
- plasma free, after meals, 1709
- requirements of dietary patterns, 932
- serum free, changes during glucose infusion, 573
- Aminograms, plasma, of low birth weight infants, 1036
- Amylase activity, pancreatic and salivary, in undernourished Colombian children, 599
- Anaerobes, human intestinal, oxygen tolerance, 1762
- Anemia
in Central American children, 1175
in children, 268
in elderly, 226
in urban underprivileged children, 947
iron deficiency, work capacity and stress in, 910
- uremic, failure of histidine supplementation to improve, 579
- Anaerobic flora, in avian intestine, 1793
- Announcements, 130, 281, 455, 643, 825, 1001, 1200, 1372, 1567, 1747, 1927, 2126

Abstracts submitted to the 17th Annual Meeting of the ASCN were published on pages 611 through 641 of the April issue of *AJCN*. Authors and subjects are not indexed here.

- Anorexia nervosa, weight gain, thermic effect of glucose and resting metabolic rate during recovery from, 138
- Antibiotic decontamination, in man and animals, reconventionalization following, 1887
- Antibiotic treatment, of lethal murine *Staphylococcus aureus* septic shock, 1364
- Anthropometric status, of Hawaiian preschoolers, 2101
- Anthropometric variables, in children, 582
- Antidiuretic hormone, secretion in children with bacterial meningitis, 1482
- Antipyrine, in malnourished children, pharmacokinetic study of, 1979
- Ascariasis, nutritional consequences of, 2117
- Ascorbic acid inhibition, thiamin and tannic acid interactions, 1680
- Aspirin intolerance, allergic potential of food additives, 1023
- Assay, transketolase, of thiamine in disease, 1591
- Autoclaving, of a lactose-containing diet on cholesterol and bile acid metabolism of rats, 1999
- Avian intestine, anaerobic flora in, 1793
- Avian liver, pteroylpoly- γ -glutamates, 1576, 1583
- Azotemia, rat, oxygen consumption in, 565
- Bacteria, sulfate-reducing anaerobic in human feces**, 1770
- Bacterial infection, effect on absorption rates of L-histidine and glycylglycine from human jejunum, 1994
- Bacterial meningitis, secretion of antidiuretic hormone in children with, 1482
- Bacteremia, gram-negative, gluconeogenesis in injured patients with, 1355
- Bactericidal activity, of leukocytes, effect of mega doses of vitamin C, 1077
- Behavior, approach to obesity, 785
- Beverage consumption, among Mormon and non-Mormon populations, 1162
- Bifidobacteria, ecology of, 1799
- Bile, dissolution with chenodeoxycholic acid, 993
- Bile acid, in jejunointestinal patients, 21
- Bile acid metabolism, effect of autoclaving of lactose-containing diet on, in rats, 1999
- Biliary lipid, changes in jejunointestinal patients, 21
- Biotin, deficiency in animals, 1408
- Birth weight
low, diet of infants, 1036
of infants, impact of quality of diet on, 215
- Blood coagulation, effect of fasting on, 1963
- Blood levels, in newborns, 1110
- Blood lipids, effect of citrus pectin on, 171
- Blood volume, changes during treatment of protein-calorie malnutrition, 349
- Body composition
and endurance training of elderly, 326
changes during infection, 1439
newborn, relationship to linear growth, 704
of women, 560
- Body density, of women, 560
- Body growth, in endemic goiter, 275
- Body length, and cell mass, 851
- Body measurements, in children, 268
- Body potassium, effect of isometric exercises on, 1983
- Body weight, in women, 560
- Body size, and work output, 322
- Book Notice, 295
- Book Reviews, 283, 456, 644, 827, 1196, 1568, 2128
- Bowel, small, length in hyperlipidemia and massive obesity, 1006
- Bowel bypass, for obesity, revision operations, 98
- Bowel resection, small, intestinal calcium-binding protein after, 2041
- Breast milk, composition of, 499, 508
- Bypass
bowel, revision operations after, 98
intestinal
for obesity, 121
for massive obesity, psychosocial aspects, 103
- jejunointestinal
for obesity, 16
for massive obesity, 4
hepatic morphology in patients, 53
hyperoxaluria and calcium oxalate nephrolithiasis after, 64
- intestinal adaptation in man, 32
- oral amino acid supplementation on

- liver disease after, 58
 psychosocial consequences, 109
 jejunileostomy, hepatic effects of, for morbid obesity, 43
 Bypass enteropathy, systemic complications, 76
- Calcium**, balance and requirements in middle-aged women, 1603
Calcium-binding protein, intestinal, after small bowel resection, 2041
Calcium oxalate, nephrolithiasis after jejunileal bypass, 64
Caloric intake, maternal, relation to birth size of infant, 568
Caloric restriction, in cholesterol metabolism in man, 1135
Cancer, vitamin B₆ deficiency in, 1677
Cancer therapy, protected environments and microbial suppression in, 1904
Carbohydrate, effect of in diet and use of oral contraceptives on metabolism of young women, 2016
Carbohydrate diets
 effect on men with chemical diabetes, 402
 fed to racing sled dogs, 409, 419
 high, comparison with high fat isocaloric diets, 160
Carbohydrate metabolism, in infection and sepsis, 1301
Carbohydrate restriction, effect on men with chemical diabetes, 402
Carbohydrate status, food intake regulation, 743
Carbohydrates
 dietary, in experimental diarrhea, 482
 metabolism, in infection and sepsis, 1301
Catabolism
 in sepsis, 1340
 protein, in starved and infected rats, 1510
 response to protein-sparing fast, 1518
Cereal, diets, lysine and tryptophan in, 674
Cell mass, and body length, 851
Cell renewal, colonic, dietary influence on, 918
Cells
 epithelial, adhesion of lactobacilli to, of rat stomach, 1777
 formazan, in protein and protein-calorie malnutrition, 1390
 red blood, exchange of tocopherol with, 686
Chemical diabetes, in men, effect of low and high carbohydrate diets, 402
Chenodeoxycholic acid, desaturation of bile and cholesterol gallstone dissolution with, 993
Children *see also Infants*
Children
 anthropometric and maturation, measurements of, 582
Central American, vitamin A deficiency and anemia in, 1175
Colombian, effects of malnutrition on immunoglobulins and enzymes in tears and saliva of, 1944
diabetes in, 304
enteric flora in diarrhea, 1811
folacin requirement of, 1098
Hawaiian preschoolers, anthropometric status of, 2101
health and nutrition, 242
25-hydroxyvitamin D in serum of, 1082
malnourished
 metabolic correlates of immune dysfunction, 1949
 pharmacokinetic study of antipyrine in, 1979
 retinol-binding protein in, 1968
Nigerian, effect of kwashiorkor on intellectual development, 1423
nitrogen balance studies with, 939
preschool black, lactose malabsorption in, 1018
protein and energy requirements, 1545
protein quality of instant blends for, 441
relationship of zinc to protein use in, 879
study of food intake, anemia rate, and body measurements in Jerusalem community, 268
undernourished, pancreatic and salivary amylase activity in, 599
urban underprivileged, anemia in, 947
vitamin B₆ intakes and 4-pyridoxic acid excretions of, 2023
weight fluctuations after immunization, 592
 with bacterial meningitis, secretion of antiuretic hormone in, 1482
 with kwashiorkor, leukocyte mobilization in, 367
 with total parenteral nutrition, 1506
Cholecystokinin, and satiety in rats and monkeys, 758
Cholesterol

- hepatic, intestinal regulation of, 255
 intestinal, absorption in rats, effect of
 alfalfa saponins on, 2061
 serum
 in men, effect of dietary egg on, 490
 levels in humans, 664
 Cholesterol dynamics, human, in vivo estimation of, 967
 Cholesterol gallstone, dissolution with chenodeoxycholic acid, 993
 Cholesterol metabolism
 disorders of, 967, 975, 979, 985, 993
 effect of autoclaving of lactose-containing diet on, in rats, 1999
 in caloric restriction in man, 1135
 in patients with resection of ileum and proximal colon, 151
 Chlorohydrocarbon, pesticide residue in human milk, 1106
 Chloramphenicol binding, to normal and kwashiorkor sera, 847
 Chromium deficiency, reversed, in total parenteral nutrition, 531
 Chromium supplementation, in total parenteral nutrition, 531
 Chromosomal abnormalities, in protein-calorie malnutrition, 1974
 Citric acid cycle, relationships to urea cycle, 2083
 Citrus pectin, effect on blood lipids and fecal steroid excretion in man, 171
 Clofibrate
 hyperlipidemic patients treated with, 517
 induced changes in glucagon and insulin secretion in patients with coronary artery disease, 2068
 Coagulation, blood, effect of fasting on, 1963
 Colds, common, and iron absorption, 235
 Colitis, experimental, intestinal microflora in, 1819
 Colon
 proximal, resection, cholesterol metabolism in patients, 151
 tumor in rats, 176
 Colonic cells, renewal, dietary influence on, 918
 Common cold, vitamin C and iron absorption, 235
 Contraceptives
 oral
 and serum triglycerides, 691
 effect of carbohydrate in diet and use of, on metabolism of young women, 2016
 Coronary artery disease
 clofibrate-induced changes in glucagon and insulin secretion in patients with, 2068
 sucrose sensitivity of patients with, 394
 Covert nutritive dilution, effect on spontaneous food intake of obese individuals, 1638
 Coxsackievirus B
 and enteric resistance, 1871
 intestinal infection, 1876
 Cyanate, reaction of tetrahydrofolic acid with, from urea solutions, 2028
 Decontamination, antibiotic in man and animals, reconventionalization following, 1887
 Deficiency
 biotin, in animals, 1408
 chromium, reversed in total parenteral nutrition, 531
 protein, polymorphonuclear neutrophilic leukocytes in, 1393
 thiamine, in rats, 681
 zinc, in rat, correction of, 528
 Defined formula diets, comparison of, 1655
 Dehydration
 diarrheal, treatment of, 1447
 due to diarrheal syndromes, oral therapy of, 1457
 Deprivation
 energy, effect on blood coagulation and fibrinolysis, 1963
 food and water, endocrine and metabolic alterations with, 1953
 protein-calorie malnutrition in monkeys, 355
 Desaturation, of bile and cholesterol gallstone dissolution with chenodeoxycholic acid, 993
 Diabetes, chemical, in men, effect of low and high carbohydrate diets, 402
 Diabetes insipidus, effect of diet on, 1070
 Diagnostic method, for food allergy, 512
 Diarrhea
 and intestinal infections, 1248
 enteric flora in children, 1811
 experimental, carbohydrates and disaccharides in, 482
 oral therapy of dehydration due to, 1457
 treatment of dehydration, 1447

- Diarrheal dehydration, treatment of, 1447, 1457
- Diet
chemical and immunological properties of protein hydrolysate formula, 840
composition, effect of, on metabolic adaptations to hypocaloric nutrition, 160
effect of, and use of oral contraceptives on metabolism of young women, 2016
effect of, on diabetes insipidus, 1070
elemental, hypoallergenic, 512
high carbohydrate and high fat, isocaloric, comparison, 160
hyperlipidemic patients treated with, 517
influence on *trans* fatty acids in human milk, 2006
lactose-containing, effect of autoclaving of, on cholesterol and bile acid metabolism of rats, 1999
of low birth weight infants, 1036
quality of, on birth weight of infants, 215
- Dietary amino acids
patterns, maintenance requirements, 932
rat, effect on offspring, 191
- Dietary carbohydrates, in experimental diarrhea, 482
- Dietary egg, effect of, on serum cholesterol and triglyceride of men, 490
- Dietary fiber, in hypercholesterolemia, 979
- Dietary folate, intake in women using oral contraceptives, 375
- Dietary influence, on colonic cell renewal, 918
- Dietary intake
during infection, 1548
in man, 1345
- Dietary leucine, excess in rat, 1645
- Dietary patterns, nutritional quality in Brazil, 955
- Dietary protein requirements, effect of isometric exercises on, 1983
- Diets
carbohydrate, fed to racing sled dogs, 409, 419
cereal-based, lysine and tryptophan in, 674
defined formula, comparison of, 1655
dimethylhydrazine induced colon tumors in rats fed diets containing beef fat or corn oil with and without wheat bran, 176
high carbohydrate, effect on men with chemical diabetes, 402
low carbohydrate, effect on men with chemical diabetes, 402
nutritional value of, in Brazil, 955
Southeast Asian, iron absorption from, 539
trans fatty acids in, 1009
- 1,25-dihydroxyvitamin D₃, actions of, on mineral metabolism in man, 1064
- Dimethylhydrazine, induced colon tumors in rats, 176
- Dipeptide hydrolase, activity of intestinal mucosa, 1044
- Disaccharides, consumption and malabsorption in Canadian Indians, 698
- Disaccharidases, intestinal, in experimental diarrhea, 482
- Disease
coronary-artery, sucrose sensitivity of patients with, 394
determination of daily energy expenditure in, 304
etiological significance, 262
liver, after jejunoleal bypass for morbid obesity, 58
- Dissolution, bile and cholesterol gallstone, with chenodeoxycholic acid, 993
- DNA, in protein-calorie malnutrition, 1094
- Eating, frequency of, relationship to adiposity, 712
- Edema, forehead, as nutritional consequence of ascariasis, 2117
- Education
levels in adults, 721
nutrition
during internship and residency training, 819
during pediatric training, 818
during surgical internship and residency, 806
in clinical years, 803
in medical schools, 812
in preclinical period, 801
perspective on, 822
postgraduate, 797, 815
- Eggs
consumption, influence on serum cholesterol level in humans, 664
dietary, effect of, on serum cholesterol and triglyceride of men, 490

- Elderly**
 effect of iron fortification on moderately anemic people, 226
 endurance training and body composition of, 326
 women, protein and iron in, 1414
- Electrolytes, leukocyte, in protein energy malnutrition**, 1478
- Elemental diet, hypoallergenic**, 512
- Endemic goiter, thyroid size and body growth in**, 275
- Endocrine alterations, with food and water deprivation**, 1953
- Endurance training, and body composition of elderly**, 326
- Energy**
 balance, in infection and sepsis, 1301
 deprivation, fasting, effect on blood coagulation and fibrinolysis, 1963
 expenditure
 in disease, 304
 of sugarcane loaders, 1740
 requirements, of children, 1545
- Energy-protein balances**, 1369
- Enteric flora, diarrhea in children**, 1811
- Enteric hyperoxaluria, incidence, etiology, and treatment**, 72
- Enteric resistance, and coxsackievirus B, 1871**
- Enteric viruses, infectious, of neonatal animals**, 1851
- Enteropathy, bypass, systemic complications**, 76
- Environments, protected, and microbial suppression in cancer therapy**, 1904
- Enzymes**
 effect of malnutrition on, in tears and saliva of Colombian children, 1944
 microsomal, effect of pneumococcal infection on rat liver, 1359
- Epithelial cells, adhesion of lactobacilli to, of rat stomach**, 1777
- Errata**, 1002, 1373, 1748, 2132
- Erythrocytes, concentration of folate in, in women using oral contraceptives**, 375
- Erythroid hypoplasia, in malnourished squirrel monkeys**, 1713
- Essential fatty acid deficiency**
 induced by total parenteral nutrition and by medium-chain triglyceride feeding, 1670
 in surgical patients undergoing protein sparing therapy, 388
- Etiology, significance, of diseases**, 262
- Excretion**
 fecal steroid, effect of citrus pectin on, 171
 nitrogen, failure of infection to increase, 1523
 renal acid, in malnutrition, 861
 sterol, in jejunostomy patients, 21
- Exercise**
 isometric, effect on body potassium and dietary protein requirements of young men, 1983
 metabolic responses to in racing sled dogs, 409
 plasma triglyceride lowering by, 716
- Experimental colitis, intestinal microflora in**, 1819
- Experimental diarrhea, carbohydrates and disaccharidases in**, 482
- Fast**
 effect on blood coagulation and fibrinolysis, 1963
 protein-sparing, catabolic response to, 1518
- Fat, fecal, in jejunostomy patients**, 21
- Fat metabolism, normal and abnormal**, 1311
- Fatness, levels in adults**, 721
- Fat-modified ruminant foods, significance of**, 1726
- Fatty acid deficiency, in patients undergoing protein sparing therapy**, 388
- Fatty acid esters, short chain, intravenous feeding of rat with**, 2078
- Fatty acids**
 in diets, 1009
 plasma, effect on, with hyperlipidemic patients supplemented with vitamin E, 517
- Fecal fat, in jejunostomy patients**, 21
- Fecal microflora, in Seventh Day Adventists**, 1781
- Fecal steroid excretion, effect of citrus pectin on**, 171
- Feces, human sulfate-reducing anaerobic bacteria in**, 1770
- Fe(III)-EDTA, as iron fortification**, 1166
- Femoral fracture, in rat**, 1512
- Fever, consequences of**, 1211
- Fiber, dietary, in hypercholesterolemia**, 979
- Fibrinolysis, effect of fasting on**, 1963
- Folacin, requirement of children**, 1098

- Folate
concentration of, in serum and erythrocytes in women using oral contraceptives, 375
deficiency, in anemic urban underprivileged children, 947
derivative, inactive, reaction of tetrahydrofolic acid with cyanate from urea solutions, 2028
Food additives, allergic potential of, 1023
Food allergy, diagnostic method for, 512
Food intake
and nitrogen balance, 1382
regulation of, 742
Food restriction-refeeding, effect on growth rate and weight, 1692
Formazan cells, in protein and protein-calorie malnutrition, 1390
Formula diets, defined, comparison of, 1655
Fortification
iron, Fe(III)-EDTA complex as, 1166
rice, for preschool Thai children, 1185
Free fatty acids, effect of stress on, in rats, 1357
Fructose tolerance, before and after starvation, 1398
- Gastric surgery
glucose tolerance, insulin secretion, and glucose utilization after, 2053
influence on intestinal flora, 1826
Gastroenteritis, human, and viral agents, 1857
Gastrointestinal tract, of gnotobiotic rats, Ames salmonella mutants in, 1921
Geographic region, effect on nutritional value of diets in Brazil, 955
Glucagon, clofibrate-induced changes in with coronary artery disease, 2068
Gluconeogenesis, impaired, in injured patients with gram-negative bacteremia, 1355
Glucose
amino acids, placental transfer of, 1087
infusion, serum amino acid changes during, 573
intolerance, reversed, in total parenteral nutrition, 531
thermic effect of, during recovery from anorexia nervosa, 138
tolerance
after gastric surgery, 2053
- before and after starvation, 1398
in rats, effects of oral contraceptive on, 381
testing, usefulness of maltose for, 924
utilization, after gastric surgery, 2053
Glycerol, chronic ingestion with sucrose or glucose in baboons, 1661
Glycerol monobutyrate, intravenous feeding of rat with short chain fatty acid esters, 2078
Glycylglycine, absorption rates from human jejunum, 1994
Gnotobiotic infants, human, 1896
Gnotobiotic rats, Ames salmonella mutants in gastrointestinal tract of, 1921
Gnotobiotics, clinical, 1911
Goiter, endemic, thyroid size and body growth in, 275
Gram-negative bacteremia, gluconeogenesis in injured patients with, 1355
Growth
and menarche, 2088
linear, and newborn body composition, 704
rate, effect of food restriction-refeeding, 1692
Guest editorial, 1571
- Hair
analysis for determination of zinc status, 2047
human and rat, trace minerals in, 868
root protein, in protein-calorie malnutrition, 1094
Heart rate methods, to determine energy expenditure in disease, 304
Hematological responses
parenteral nutrition with histidine depletion in man, 900
to training, in racing sled dogs, 419
Hemodynamic findings, in protein-calorie malnutrition, 334
Hepatic complications, of jejunoileal bypass for morbid obesity, 43
Hepatic morphology, in jejunoileal bypass patients, 53
Hereditary tyrosinemia, phenylalanine-tyrosine deficiency syndrome as complication of, 209
Histidine administration, on zinc metabolism in rat, 523
Histidine depletion, in man, parenteral nutrition with, 887, 900

- Histidine-free intake, responses to, in man, 887, 900
- Histidine supplementation, failure to improve uremic anemia, 579
- Hormonal responses, parenteral nutrition with histidine depletion in man, 900
- Host nutritional responses, to infection, 1236
- Host response, to infection, role of amino acids, 1269
- Human feces, sulfate-reducing anaerobic bacteria in, 1770
- Human milk, chlorohydrocarbon pesticide residues in, 1106
- Hydroxo(aquo)cobalamin, conversion to sulfitocobalamin in absence of light, 1617
- (—)Hydroxycitrate
influence on experimentally induced obesity in rodent, 767
influence on genetically and experimentally induced hypertriglyceridemia in rat, 777
- 25-Hydroxyvitamin D, in serum of children, 1082
- 1 α -Hydroxyvitamin D₃, actions of, on mineral metabolism in man, 1064
- Hypercholesterolemia, dietary fiber in, 979
- Hypercholesterolemia, treatment of, 985
- Hyperlipidemia
small bowel length in, and massive obesity, 1006
vitamin E supplementation in patients, 517
- Hyperlipoproteinemia, plasma triglyceride lowering by exercise in patients with, 716
- Hyperoxaluria
after jejunoileal bypass, 64
enteric, incidence, etiology, and treatment, 72
- Hypertriglyceridemia, genetically and experimentally induced in rat, influence of (—)-hydroxycitrate, 777
- Hypocaloric nutrition, effect of diet composition on metabolic adaptations to, 160
- Hypoplasia, erythroid, in malnourished squirrel monkeys, 1713
- Ileum, resection, cholesterol metabolism in patients, 151
- Immune dysfunction, metabolic correlates of in malnourished children, 1949
- Immunity, local, development of, 1843
- Immunization
in children, weight fluctuation after, 592
yellow fever, failure to produce catabolic response in protein-sparing fast, 1518
- Immunoglobulins, effect of malnutrition on, in tears and saliva of Colombian children, 1944
- Income
effect on nutritional value of diets in Brazil, 955
levels in adults, 721
- Infants *see also* Children
- Infants
diet of low birth weight, 1036
folacin requirement of, 1098
human, gnotobiotic, 1896
newborn, amino acid intake and blood levels in, 1110
nutrient intake of, with phenylketonuria, 198
premature, nutritional management of, 1147
protein quality of instant blends for, 441
quality of diet on birth weight of, 215
- Infection: *see also* Sepsis
- Infection
adrenergic mechanisms in, 1285
and iron metabolism, 1485
and nutritional status, 1564
bacterial, effect on absorption rates of L-histidine and glycylglycine from human jejunum, 1994
changes in body composition during, 1439
development of kwashiorkor and marasmus in Africa, 1281
dietary intake during, 1548
effect on food intake and nutritional state, 1215
effect on nutrient requirements of, 1536
electrolytes in, 1491
energy balance and carbohydrate metabolism, 1301
failure to increase nitrogen excretion, 1523
host nutritional responses to, 1236
impact on nutritional status, 1204, 1206, 1233
impact on vitamin metabolism, 1473
interaction with nutrition, 1553
interaction with nutrition in hospital setting, 1228

- intestinal
 coxsackievirus B, 1876
 malabsorption associated with diarrhea, 1248
- lipid metabolism in, 1321
- nutritional assessment and support during, 1493
- nutritional consequences, 1294
- nutritional intervention during, 1533
- pneumococcal, effect on rat liver, 1359
- role of amino acids in host response to, 1269
- viral, during pregnancy and early life, 1834
- Infectious enteric viruses, of neonatal animals, 1851
- Ingestion, of glycerol with sucrose or glucose in baboons, 1661
- Injury
 extensive, gluconeogenesis in patients with gram-negative bacteremia, 1355
 protein metabolism in man, 1333
- Instant blends, protein quality of, for children, 441
- Insulin secretion
 after gastric surgery, 2053
 clofibrate-induced changes in, with coronary artery disease, 2068
- Intellectual development, in Nigerian children, effect of kwashiorkor, 1423
- International Union of Nutritional Sciences, 1403
- Intestinal anaerobes, human, oxygen tolerance, 1762
- Intestinal bypass
 for massive obesity, psychosocial aspects, 103
 for obesity, 121
- Intestinal cholesterol, absorption in rats, effect of alfalfa saponins on, 2061
- Intestinal disaccharidases, in experimental diarrhea, 482
- Intestinal flora, influence of gastric surgery on, 1826
- Intestinal infection
 coxsackievirus B, 1876
 malabsorption associated with diarrhea, 1248
- Intestinal microecology, bicentennial overview, 1753
- Intestinal microflora, in experimental colitis, 1819
- Intestinal mucosa, dipeptide hydrolase activity of, 1044
- Intestine, avian, anaerobic flora in, 1793
- Intravenous feeding, of rat with short chain fatty acid esters, 2078
- Iron
 absorption
 from Southeast Asian diets, 539
 vitamin C and common cold, 235
 and protein in elderly women, 1414
 binding to wheat, 1721
 deficiency, in anemic urban underprivileged children, 947
 fortification
 effect of, on moderately anemic elderly people, 226
 Fe(III)-EDTA complex as, 1166
 metabolism, and infection, 1485
- Iron deficiency anemia, work capacity and stress in, 910
- Isocaloric diets, high fat, comparison with high carbohydrate diets, 160
- Isometrics, effect on body potassium and dietary protein requirements of young men, 1983
- Jejunoileal bypass
 for massive obesity, 4
 for obesity, 16
 hepatic effects of, for morbid obesity, 43
 hepatic morphology in patients, 53
 hyperoxaluria and calcium oxalate nephrolithiasis after, 64
 in man, intestinal adaptation, 32
 oral amino acid supplementation on liver disease after, 58
 psychosocial consequences, 109
- Jejunostomy
 fecal fat, bile acid, sterol excretion, and biliary lipid changes in patients, 21
 for obesity, 1
- Jejunum, human, absorption rates of L-histidine and glycylglycine in, 1994
- Jerusalem community, study of children in, 268
- Ketone bodies, effect of stress on, in rats, 1357
- Kinetics, thiamin and tannic acid interactions, 1680
- Kwashiorkor
 and infection in Africa, 1281
 effect on intellectual development of Nigerian children, 1423
 leukocyte mobilization in, 367
 sera, chloramphenicol binding to, 847

- Lactase deficiency, study of diagnostic methods, 1597
- Lactation, effect of large amounts of vitamin E, 1629
- Lactobacilli, adhesion to epithelial cells of rat stomach, 1777
- Lactose-containing diet, effect of autoclaving of, on cholesterol and bile acid metabolism of rats, 1999
- Lactose-hydrolyzed milk, 695
- Lactose malabsorption
in adult Vietnamese, 468
in Mexican-American adults, 470
in preschool black children, 1018
milk and lactose-hydrolyzed milk, 695
serum lipids and proteins in, 476
- Lean body weight, in women, 560
- Letters to the Editor, 131, 297, 461, 649, 833, 1003, 1375, 1573, 1935
- Leucine, dietary, excess in rat, 1645
- Leukocyte electrolytes, in protein-energy malnutrition, 1478
- Leukocyte mobilization, in children with kwashiorkor, 367
- Leukocytes
effect of mega doses of vitamin C on bactericidal activity of, 1077
polymorphonuclear neutrophilic, in protein deficiency, 1393
- L-histidine, absorption rates from human jejunum, 1994
- Linear growth, and newborn body composition, 704
- Lipases, milk, in breast milk, 508
- Lipid disorders, metabolic regulation as control for, 767, 777
- Lipid metabolism
in essential fatty acid deficient rats, 1009
in infection, 1321
- Lipid responses, parenteral nutrition with histidine depletion in man, 900
- Lipids
biliary, changes in jejunoileostomy patients, 21
blood, effect of citrus pectins on, 171
serum
in lactose malabsorption, 476
in Puerto Rican men, 2092
- Lipogenesis, rat, effect of pneumococcal infection on liver, 1359
- Lipoproteins
low density, human mutations affecting, 975
- serum, effect on, with hyperlipidemic patients supplemented with vitamin E, 517
- Liver disease, after jejunoileal bypass for morbid obesity, 58
- Liver ferritin iron, in rat, 1054
- Local immunity, development of, 1843
- Low birth weight, diet of infants, 1036
- Low density lipoproteins, human mutations affecting, 975
- Lysine, in cereal-based diets, 674
- Malabsorption**
and disaccharide consumption in Canadian Indians, 698
- lactose, 1597
in adult Vietnamese, 468
in Mexican-American adults, 470
in preschool black children, 1018
milk and lactose-hydrolyzed milk, 695
serum lipids and proteins in, 476
with diarrhea and intestinal infections, 1248
- Malaria, suppression of, as nutritional consequence of ascariasis, 2117
- Malnutrition**
development of monkeys, 355
early, and late adoption, 1734
effect on concentrations of immunoglobulins and enzymes in tears and saliva of Colombian children, 1944
in children
metabolic correlates of immune dysfunction, 1949
pharmacokinetic study of antipyrine in, 1979
retinol-binding protein in, 1968
in squirrel monkeys, erythroid hypoplasia in, 1713
pancreatic and salivary amylase activity in Colombian children, 599
protein, in adults and controls, 1044
protein-calorie
blood volume changes during treatment of, 349
cell mass and body length, 851
chromosomal abnormalities in, 1974
formazan cells in, 1390
hair root protein and DNA in, 1094
hemodynamic findings in, 334
in monkeys, 355
protein-energy cost during, 1514

- leukocyte electrolytes and sodium transport in, 1478
renal acid excretion in, 861
Maltose, for testing glucose tolerance, 924
Maltose tolerance tests, 924
Management, operative, of morbid obesity, 90
Marasmus, and infection in Africa, 1281
McCollum Award, 831
Medium-chain triglyceride feeding, essential fatty acid deficiency induced by, 1670
Menarche, and growth, 2088
Meningitis, bacterial, secretion of antidiuretic hormone in children with, 1482
Metabolic adaptation, to hypocaloric nutrition, 160
Metabolic alterations, with food and water deprivation, 1953
Metabolic rate, resting, during recovery from anorexia nervosa, 138
Metabolic responses
 to exercise, in racing sled dogs, 409
 to training, in racing sled dogs, 419
Metabolic stress, in iron deficiency anemia, 910
Metabolism
 bile acid, effect of autoclaving of lactose-containing diet on, in rats, 1999
 carbohydrate, in infection and sepsis, 1301
 cholesterol
 effect of autoclaving of lactose-containing diet on, in rats, 1999
 in patients with resection of ileum and proximal colon, 151
 effects imposed by *Streptococcus pneumoniae* upon response to femoral fracture in rat, 1512
 fat, normal and abnormal, 1311
 iron, and infection, 1485
 lipid
 in essential fatty acid deficient rats, 1009
 in infection, 1321
 phosphorus, in potassium-deficient rats, 549
 protein, effects of nutrition and injury, 1333
 regulation as control for lipid disorders, 767, 777
 vitamin, impact of infection on, 1473
Methionine metabolism, in oral contraceptive users, 1122
3-Methylhistidine excretion, protein catabolism in sepsis as measured by, 1349
 N^1 -methylnicotinamide, determination in urine, 2108
Microbial effects, on mucosal structure and function, 1880
Microbial suppression, and protected environments in cancer therapy, 1904
Microecology, intestinal, bicentennial overview, 1753
Microflora
 fecal, in Seventh Day Adventists, 1781
 intestinal, in experimental colitis, 1819
Microsomal enzymes, effect of pneumococcal, infection on rat liver, 1359
Middle age, in women, calcium balance and calcium requirements, 1603
Milk
 and lactose-hydrolyzed milk, 695
 breast, composition of, 499, 508
 composition in thiamine deficiency, 681
 human
 chlorohydrocarbon pesticide residues in, 1106
 influence of diet on *trans* fatty acids in, 2006
Milk lipases, in breast milk, 508
Mineral metabolism, in man, 1α -hydroxyvitamin D₃ and 1,25-dihydroxyvitamin D₃ on, 1064
Minerals
 in human teeth, 883
 trace, in human and rat hair, 868
Mormon beverage consumption, 1162
Motion sickness, pica induced by, in rat, 147
Mucosa, intestinal, dipeptide hydrolase activity of, 1044
Mucosal function, microbial effects on, 1880
Mucosal structure, microbial effects on, 1880
Mutations, human, affecting low density lipoproteins, 975
Nails, nitrogen content, of adolescents, 496
Neonatal animals, infectious enteric viruses in, 1851
Nephrolithiasis, calcium oxalate, after jejunileal bypass, 64

- Neuropathy, reversed, in total parenteral nutrition, 531
- Newborns
amino acid intake and blood levels in, 1110
body composition, relationship to linear growth, 704
- Nitrogen, changes in body balances of, 1254
- Nitrogen balance
and food intake, 1382
effect of surgical sepsis on, 1528
in man, 1345
studies with normal children, 939
- Nitrogen metabolism, parenteral nutrition with selective histidine depletion in man, 887
- Nitrogen balance data, protein allowances in human adults, 1129
- Nitrogen content, of nails in adolescents, 496
- Nitrogen excretion, failure of infection to increase, 1523
- Nitrogenous substances, in breast milk, 499
- Nutrient intake
in Puerto Rican men, 2092
of treated infants with phenylketonuria, 198
- Nutrient requirements, effect of infection on, 1536
- Nutrition
and infection, 1564
anemia in urban underprivileged children, 947
availability of zinc, 873
changes in body balances of key nutrients, 1254
consequences of fever, 1211
consequences of infection, 1294
education
during internship and residency training, 819
during pediatric training, 818
during surgical internship and residency, 806
in clinical years, 803
in medical schools, 812
in preclinical period, 801
perspective on, 822
postgraduate, 815
effect of infection on food intake, 1215
hypocaloric, effect of diet compositions on metabolic adaptations to, 160
impact of infection on, 1204, 1206, 1233
- interaction with infection, 1553
in hospital setting, 1228
- of young children, 242
- parenteral
in adults, 552
with histidine depletion in man, 887, 900
- postgraduate medical education, 797
- protein
after jejunointestinal bypass, 58
in boys, 371
rat amino acids, effect on offspring, 191
rice fortification for preschool Thai children, 1185
- salmonellosis in mice, 1289
- studies in Thailand, 868
- teaching nutrient requirements and allowances, 726
- total parenteral
chromium supplementation, 531
essential fatty acid deficiency induced by, 1670
in children, 1506
value of diets in Brazil, 955
- Nutritional assessment, during infection, 1493
- Nutritional intervention, during infection, 1533
- Nutritional management, of female with phenylketonuria during pregnancy, 1153
- Nutritional responses, to infection, 1236
- Nutritional status
and infection, 1564
of pregnant women, 568
of premature infants, 1147
protein metabolism in man, 1333
- Nutritional supplementation, 1612
- Nutritional support, newer products and formulas for alimentation, 1498
- Nutritionist, "pure" clinical, 1929
- Nutrition News, 280
- Nutritive dilution, covert, effect on spontaneous food intake of obese individuals, 1638
- Obesity**
adipose tissue development in man, 762
behavioral approach, 785
comparisons with Eskimos and other Canadians, 1623
effect of covert nutritive dilution, on spontaneous food intake, 1638

- experimentally induced in rodent, influence of (—)-hydroxycitrate, 767
intestinal bypass for, 121
jejunostomy for, 1
morbid
hepatic effects of jejunoileal bypass, 43
operative management, 90
revision operation after bowel bypass, 98
small bowel length in hyperlipidemia and, 1006
studies of operated and nonoperated patients, 16
massive jejunoileal bypass for, 4
psychosocial aspects of, intestinal bypass, 103
Opaque-2 corn, urea supplementation of, for boys, 371
Operative management, of morbid obesity, 90
Oral alanine, loads, effect of, on serum triglycerides of oral contraceptive users and normal subjects, 691
Oral contraceptives
and serum triglycerides, 691
dietary folate in women using, 375
effects in rats, 381
effect of carbohydrate in diet and use of, on metabolism of young women, 2016
methionine metabolism in users, 1122
Oral therapy, of dehydration due to diarrheal syndromes, 1457
Overfeeding, short-term, thermogenesis during, 1026
Oxygen consumption
in azotemic rat, 565
in sugarcane cutters, 316
Oxygen dependence, thiamin and tannic acid interactions, 1680
Oxygen tolerance, of human intestinal anaerobes, 1762

Parenteral nutrition
in children, 1506
of adults, 552
total
chromium supplementation, 531
essential fatty acid deficiency induced by, 1670
with histidine depletion in man, 887, 900
Parotid enlargement, as nutritional consequence of ascariasis, 2117

Pectin, citrus, effect on blood lipids and fecal steroid excretion in man, 171
Pesticide residues, chlorohydrocarbon in human milk, 1106
Pharmacokinetic study, of antipyrine in malnourished children, 1979
Phenylalanine-tyrosine, deficiency, as complication of, hereditary tyrosinemia, 209
Phenylketonuria
management of female during pregnancy, 1153
nutrient intake of treated infants with, 198
Phosphatase, serum placental in humans, 182
Phosphate depletion, reduced renal acid excretion in malnutrition, 861
Phosphorus absorption, in man, 1064
Phosphorus metabolism, in potassium-deficient rats, 549
Pica, motion sickness-induced, in rat, 147
Placental phosphatase, serum, in humans, 182
Placental solutions, placental transfer of glucose-amino acid complexes in, 1087
Placental transfer, of glucose-amino acid complexes, 1087
Plasma, exchange of tocopherol with, 686
Plasma aminograms, of low birth weight infants, 1036
Plasma fatty acids, effect on, with hyperlipidemic patients supplemented with vitamin E, 517
Plasma free amino acids, after meals, 1709
Plasma growth hormone, in rats, effects of oral contraceptive on, 381
Plasma triglycerides, lowering by exercise, 716
Plasma vitamin E levels, of Chinese population in Taiwan, 728
Pneumococcal infection, effect on rat liver, 1359
Polymorphonuclear neutrophilic leukocytes, in protein deficiency, 1393
Polyunsaturates, value of ruminant fat foods, 1571
Ponderal index, in Canadian Eskimos, 1623
Potassium
body, effect of isometric exercises on, 1983
deficiency, in rats, 549

- intakes, of normal men consuming sodium chloride, 2033
- Pregnancy
effect of large amounts of vitamin E, 1629
nutritional management of phenylketonuria during, 1153
nutritional status of women, 568
placental phosphatase of maternal serum in, 182
viral infections during, 1834
- Premature infants, nutritional management of, 1147
- Presidential address, 1929
- Program, Seventeenth Annual Meeting ASCN, 451, 607
- Protected environments, and microbial suppression in cancer therapy, 1904
- Protein
and iron in elderly women, 1414
dietary requirements, effect of isometric exercises on, 1983
formazan cells in, 1390
hair root, in protein-calorie malnutrition, 1094
maternal, relation to birth size of infant, 568
metabolism, effects of nutrition and injury, 1333
retinol-binding, in serum of xerophthalmic, malnourished children, 1968
- Protein allowances, in human adults, 1129
- Protein-calorie malnutrition
blood volume changes during treatment of, 349
cell mass and body length, 851
chromosomal abnormalities in, 1974
formazan cells in, 1390
hair root protein and DNA in, 1094
hemodynamic findings in, 334
in monkeys, 355
- Protein catabolism
in starved and infected rats, 1510
measurement, in sepsis, 1349
- Protein deficiency, polymorphonuclear neutrophilic leukocytes in, 1393
- Protein-energy malnutrition
energy cost during, 1514
leukocyte electrolytes and sodium transport in, 1478
- Protein hydrolysate formula, chemical and immunological properties, 840
- Protein malnutrition, in adults and controls, 1044
- Protein metabolism, effects of nutrition and injury, 1333
- Protein nutrition
after jejunoleal bypass, 58
in boys, 371
- Protein quality, of instant blends for children, 441
- Protein requirements, of children, 1545
- Proteins, in lactose malabsorption, 476
- Protein-sparing fast, catabolic response to, 1518
- Protein-sparing therapy
effect of surgical sepsis on, 1528
in surgical patients, essential fatty acid deficiency in, 388
- Protein synthesis
in sepsis, 1340
in vivo measurement of, 1353
- Protein turnover, in man, 1345
- Protein use, relationship of zinc to, in children, 879
- Proximal colon, resection, cholesterol metabolism in patients, 151
- Psychosocial effects
of intestinal bypass for massive obesity, 103
of jejunoleal bypass, 109
- Pteroylpoly- γ -glutamates, avian liver, 1576, 1583
- Public health, significance of fat-modified ruminant foods, 1726
- 4-Pyridoxic acid excretions, and vitamin B₆ intakes of children, 2023
- Racial differences, in nitrogen content of nails in adolescents, 496
- α -Receptor blocking agents, in infection treatment, 1285
- β -Receptor blocking agents, in infection treatment, 1285
- Reconvalescence, following antibiotic decontamination in man and animals, 1887
- Red blood cells, exchange of tocopherol with, 686
- Renal acid excretion, in malnutrition, 861
- Report of a Meeting, 449
- Resection
bowel, 151
of ileum and proximal colon, 151

- Retinol-binding protein, in serum of xerophthalmic, malnourished children, 1968
- Rice fortification, for preschool Thai children, 1185
- Ruminant foods
fat-modified, significance of, 1726
polyunsaturated, value of, 1571
- Salmonellosis, nutritional effects in mice, 1289
- Sandfly fever, in man, glucose infusion of serum free amino acids during, 573
- Satiety, and cholecystokinin in rats and monkeys, 758
- Scandinavian Obesity Project, report on, 16
- Secretion
insulin
after gastric surgery, 2053
clofibrate-induced changes in with coronary artery disease, 2068
of antidiuretic hormone in children with bacterial meningitis, 1482
- Separation of products, thiamin and tannic acid interactions, 1686
- Sepsis: *see also* Infection
- Sepsis
energy balance and carbohydrate metabolism, 1301
muscle protein catabolism in, 1349
protein synthesis and catabolism, 1340
surgical, effect on protein-sparing therapies and nitrogen balance, 1528
- Septic shock, lethal murine *Staphylococcus aureus*, antibiotic treatment of, 1364
- Sera, normal and kwashiorkor, chloramphenicol binding to, 847
- Serum
concentration of folate in, in women using oral contraceptives, 375
25-hydroxyvitamin D in, of children, 1082
- Serum cholesterol
in men, effect of dietary egg on, 490
levels in humans, 664
- Serum ferritin, in rat, 1054
- Serum free amino acids, changes during glucose infusion, 573
- Serum lipids
in lactose malabsorption, 476
in Puerto Rican men, 2092
- Serum lipoproteins, effects on, with hyperlipidemic patients supplemented with vitamin E, 517
- Serum placental phosphatase, in humans, 182
- Serum triglycerides, and oral contraceptives, 691
- Serum uric acid, level of Thai individuals, 2122
- Seventh Day Adventists, fecal microflora in, 1781
- Short chain fatty acid esters, intravenous feeding of rat with, 2078
- Skinfold thickness, in Canadian Eskimos, 1623
- Small bowel, length in hyperlipidemia and massive obesity, 1006
- Small bowel resection, intestinal calcium-binding protein after, 2041
- Socioeconomic status, in adults, 721
- Sodium intakes, of normal men consuming sodium chloride, 2033
- Sodium transport, in protein energy malnutrition, 1478
- Special Announcement, 605
- Staphylococcus aureus*, lethal murine, septic shock, antibiotic treatment of, 1364
- Starvation, glucose and fructose tolerance, before and after, 1398
- Steroid excretion, fecal, effect of citrus pectin on, 171
- Sterol excretion, in jejunostomy patients, 21
- Streptococcus pneumoniae*, metabolic effects imposed by, upon response to femoral fracture in rat, 1512
- Stress, on ketone bodies and free fatty acids in rats, 1357
- Sucrose sensitivity, of patients with coronary-heart disease, 394
- Sugarcane cutters, oxygen consumption in, 316
- Sugarcane loaders, energy expenditure in, 1740
- Sulfate-reducing bacteria, in human feces, 1770
- Sulfitocobalamin, conversion of hydroxoaquo(cobalamin to, in absence of light, 1617
- Supplementation
chromium, in total parenteral nutrition, 531
histidine, failure to improve uremic anemia, 579

- nutritional, 1612
 of vitamin E in hyperlipidemic patients, 517
 oral amino acid, on liver disease after jejunoileal bypass for morbid obesity, 58
 Syndrome, phenylalanine-tyrosine deficiency, 209
 Synthesis
 hepatic cholesterol, intestinal regulation of, 255
 protein, in vivo measurement of, 1353

 Tannic acid, chemical interactions with thiamin, 1680, 1686
 Tartrazine sensitivity, allergic potential of food additives, 1023
 Teaching, nutrient requirements and allowances, 726
 Teeth, human, minerals in, 883
 Tetrahydrofolic acid, reaction with cyanate from urea solutions, 2028
 Thermogenesis, during short-term overfeeding, 1026
 Thiamin, chemical interactions with tannic acid, 1680, 1686
 Thiamine
 deficiency in rats, 681
 transfer in thiamine-deficient rats, 681
 transketolase assay in disease, 1591
 Thyroid, size, in endemic goiter, 275
 Tissue, adipose, development in man, 762
 Tocopherol, exchange of, between red blood cells and plasma, 686
 Total parenteral nutrition
 chromium supplementation, 531
 essential fatty acid deficiency induced by, 1670
 in children, 1506
 Trace minerals, in human and rat hair, 868
 Trans fatty acids
 effects in diet on lipid metabolism in essential fatty acid deficient rats, 1009
 in human milk, influence of diet on, 2006
 Transketolase assay, of thiamine in disease, 1591
 Transport, sodium, in protein energy malnutrition, 1478
 Triglyceride feeding, medium-chain, essential fatty acid deficiency induced by, 1670
 Triglycerides plasma, lowering by exercise, 716
 serum, and contraceptives, 691
 Tropical sprue, weight loss in, 1703
 Tryglyceride, of men, effect of dietary egg on, 490
 Tryptophan, in cereal-based diets, 674
 Tumor, colon, in rats, 176
 Tyrosinemia, hereditary, phenylalanine-tyrosine deficiency syndrome as complication of, 209

 Urea biosynthesis, urea cycle and relationships to citric acid cycle, 2083
 Urea cycle, relationships to citric acid cycle, 2083
 Urea solutions, reaction of tetrahydrofolic acid with cyanate from, 2028
 Urea supplementation, of opaque-2 corn for boys, 371
 Uremic anemia, failure of histidine supplementation to improve, 579
 Uric acid, serum level of Thai individuals, 2122
 Urine, determination of N¹-methylnicotinamide in, 2108

 Veins, peripheral, parenteral nutrition via, 552
 Viral agents, and gastroenteritis in humans, 1857
 Viral infection, during pregnancy and in early life, 1834
 Viruses, infectious enteric, of neonatal animals, 1851
 Vitamin A deficiency, in Central American children, 1175
 Vitamin B₆
 and 4-pyridoxic acid excretions of children, 2023
 deficiency in cancer patients, 1677
 methionine metabolism in oral contraceptive users receiving intakes of, 1122
 Vitamin B₁₂
 deficiency, in anemic urban underprivileged children, 947
 identification reaction, 1617
 Vitamin C
 effect of mega doses on bactericidal activity, 1077
 the common cold and iron absorption, 235
 Vitamin D, effects on net absorption of phosphorus, 1064

- Vitamin E**
effect of large amounts during pregnancy and lactation, 1629
in hyperlipidemic patients, 517
status of Chinese population in Taiwan, 728
- Vitamin metabolism**, impact of infection on, 1473
- Vitamins**, status of older women, 431
- Weight**, effect of food restriction-refeeding, 1692
- Weight change**, in man, 1345
- Weight fluctuations**, in children after immunization, 592
- Weight gain**
during recovery from anorexia nervosa, 138
maternal, relation to birth size of infant, 568
- Weight loss**, in tropical sprue, 1703
- Wheat**, zinc and iron binding to, 1721
- Work capacity**, in sugarcane loaders, 1740
- Work output**, and body size, 322
- Xerophthalmic**, children, retinol-binding protein in, 1968
- Yellow fever**, failure of immunization, in protein-sparing fast, 1518
- Zinc**
binding to wheat, 1721
in children, 879
- Zinc absorption**, in rat, through skin, 528
- Zinc availability**, determination of in foods by extrinsic label technique, 873
- Zinc deficiency**, correction of, in rat, 528
- Zinc metabolism**, in rat, influence of histidine administration on, 523
- Zinc status**, evaluation of hair analysis for determination, 2047

Author Index

Volume 30

- Abe, H., 924
Abrahamsson, L., 441
Abrams, G. D., 1880
Acosta, P. B., 198, 1937
Adams, J. F., 1617
Adelman, R. D., 565
Adibi, S. A., 63
Adler, B., 268
Aitchison, J. M., 2006
Alcantara, E. N., 662
Allen, K. G. D., 654
Altes, C. K., 1887
Alvarado, J., 1439
Amatruda, J. M., 58
Ament, M. E., 76
Ancri, G., 568
Anderson, G. H., 1110
Anderson, H. L., 887, 900
Anderson, J. W., 402
Andrews, M., 1153
Arand, C. R., 1122
Armbruster, J., 1106
Armstrong, M. L., 1512
Arnaud, S. B., 1082
Arnold, A. C., 2053
Arnold, T. S., 381
Arroyave, G., 1175
Arvanitakis, C., 1597
Arvidsson Lenner, R., 304
Aschkenasy, A., 1645
Asfour, R., 1098
Ausman, L. M., 131, 1713
Ayala, E., 1359
- Bailey, L. B., 674
Bailey, S. M., 721
Balnave, D., 1408
Balsan, S., 2041
Barac-Nieto, M., 316, 1740
Barbour, G. L., 579
Barisch, J., 32
Barker, P. A., 275
Barnard, R. J., 910
Barnes, E. M., 1793
Baron, R. B., 691
- Baroni, Y., 947
Barrett, J. T., 1762
Barry, R. E., 32, 71
Bartlett, J. G., 1819
Bautista, A., 275
Bayless, T. M., 1018
Beachler, C. W., 861
Bean, W. B., 136
Beaver, M., 1999
Beerens, H., 1770
Behall, K. M., 2016
Beigler, M. A., 659
Beisel, W. R., 573, 1206,
 1236, 1294, 1439, 1564
Bell, M. J., 1506
Benfield, J., 32
Benfield, J. R., 121
Berall, J., 851
Berenson, G. S., 582
Berry, L. J., 1289
Beyer, P. L., 1655
Bhat, K. S., 1077
Bieri, J. G., 686
Bilbrey, G. L., 1439
Birkhahn, R. H., 2078
Bistrian, B. R., 1228, 1518,
 1523, 1528
Björn-Rasmussen, E., 539
Blackburn, G. L., 815, 1321,
 1493, 1518, 1523, 1528,
 1533
Blakemore, W. S., 1349
Blalock, T., Jr., 1070
Blanchard, R., 134
Boberg, J., 517
Bodey, G. P., 1904
Boitnott, J. K., 58
Bolanos, O., 1044
Bondi, J. L., 151
Booth, D. A., 1375
Booth, G., 1638
Border, J. R., 2078
Borhani, N. O., 1135
Borut, T., 1949
Boyce, R. W., 560
- Bradley, P., 649
Brassard, R., 2108
Bray, G. A., 32, 121
Brennan, R., 716
Brewer, M. F., 674
Brickman, A. S., 1064
Briggs, G. M., 658
Briones, E. R., 394
Brobeck, J. R., 1376
Broitman, S. A., 1876
Bronner, F., 726
Brown, M. S., 975
Brown, R. E., 762
Brown, R. R., 1122, 1677
Bruce-Robertson, A., 531
Brush, M. K., 932
Brusis, O. A., 226
Bryan, H., 1110
Buchanan, N., 847
Buchwald, H., 41, 1006
Burkhartsmeier, G. L., 1953
Burkitt, D. P., 262
Burmeister, L. F., 939, 1285,
 1364
- Callaway, C. W., 797
Calloway, D. H., 883
Camitta, B. M., 1713
Campbell, B. J., 1762
Canolty, N. L., 2006
Canonico, P. G., 1359
Carlson, S. D., 490
Carrazza, F. R., 1447
Carrington, E. R., 182
Carter, J. H., 1921
Casazza, L. J., 1944
Caster, W. O., 132
Cervone, N., 431
Chandramouli, B., 1036
Chang, L., 1999
Chatterjee, B., 322
Cheek, D. B., 851
Cheeke, P. R., 2061
Chen, G.-H., 1597
Chen, J.-S., 728

- Chen, L. H., 728
 Chernoff, M. C., 659
 Chevalier, Ph., 1645
 Chin, T. D. Y., 1834
 Christopher, J., 1054
 Chu, R. C., 531
 Clark, H. E., 674
 Clarke, R. P., 568
 Cleaton-Jones, P. E., 1938
 Clydesdale, F. M., 132
 Cobb, M., 1968
 Coburn, J. W., 1064
 Cohen, M. I., 496
 Cohn, R. M., 209
 Cole, P. E., 721, 1935
 Colon, A. A., 2092
 Connor, W. E., 388
 Cook, G. C., 1994
 Cook, J. D., 235
 Cooper, M., 4
 Corcino, J. J., 1703
 Cordero, E., 2092
 Corey, P., 1110
 Cornwell, P. E., 1583
 Costas, R., Jr., 2092
 Cox, S. E., 182
 Crisp, A. H., 109, 138
 Crumb, C. K., 579
 Darby, W. J., 1098
 Das, M., 1949
 Davies, N. T., 300
 Davis, L., 1018
 Dean, R. H., 90
 de Géry, A., 463
 Delbarre, F., 463
 Deller, J. J., Jr., 284
 Deller, L. D., Jr., 652
 Demming, S. B., 2047
 Dent, M., 132
 DeOrio, A. J., 1826
 Dinterman, R. E., 573, 1510
 Dorossiev, D. L., 664
 Drenick, E. J., 41, 76
 Drucker, B., 1106
 Dudrick, S. J., 806
 Dunkley, W. L., 2006
 Dunlap, H. L., Jr., 409, 419
 Dunn, J. T., 275
 Duque, E., 1044
 Earnest, D. L., 72
 Eastwood, M. A., 658
 Eaton, R. P., 2068
 Eckhert, C. D., 1574
 Edelman, R., 367, 1377
 Edgerton, R., 910
 Egberg, N., 1963
 Elder, H. A., 1781
 Elias, M. F., 355
 Ellestad-Sayed, J. J., 698
 Elmadfa, I., 449
 el Nisa, I., 1094
 Epstein, M. G., 1692
 Evans, G. W., 301, 654, 873
 Evarts, R. P., 686
 Faloon, W. W., 1, 21, 71,
 89, 98
 Faraji, B., 1721
 Fardal, L., 691
 Farquharson, J., 1617
 Feig, S. A., 1949
 Feigin, R. D., 1482, 1548,
 1553
 Felsenfeld, D., 1390, 1393
 Filer, L. J., Jr., 1036
 Finegold, S. M., 76, 1781
 Fisher, H., 932
 Fitch, L. L., 1006
 Flath, L. C., 1713
 Flatt, J.-P., 1523
 Flodin, N. W., 302
 Flood, M. S., 21, 98
 Flynn, M. A., 490
 Folscroft, J., 1597
 Fomon, S. J., 939
 Foster, T. A., 582
 Fox, H. M., 371, 1942
 Frame, C. M., 1004
 Francescatti, D. S., 1826
 Francis, K. T., 2028
 Frank, R. L., 2033
 Franz, M. L., 512
 Freeman, J. B., 388
 Freeman, R. M., 523, 549
 Freier, S., 840
 Frerichs, R. R., 582
 Frisancho, A. R., 704
 Galant, S. P., 512
 Gallina, D. L., 1713
 Ganguly, R., 1843
 Ganjam, V. K., 409
 Garcia, B., 1215
 Garcia-Palmieri, M. R., 2092
 Gardner, G. W., 910
 Garn, S. M., 721, 1935
 Garza, C., 466
 Gastineau, C. F., 135
 Gazet, J-C., 109
 Gearhart, H. L., 695
 Gebre-Medhin, M., 499, 508
 Geiger, J. W., 1349
 Gelbart, S. M., 1826
 Gerich, J. E., 160
 Gerron, G., 1070
 Gershoff, S. N., 226, 868,
 1185
 Ghadimi, H., 1147
 Gibbs, J., 758
 Gilkinson, J. B., 1082
 Gill, J. L., 2033
 Ginsberg-Fellner, F., 762
 Gjessing, E. C., 1044
 Glick, Z., 1026
 Glover, J., 1968
 Gluck, F. W., 90
 Golden, M., 1333, 1345,
 1478
 Golden, M. H. N., 1353
 Goldman, P., 1921
 Goldsmith, R. S., 1082
 Goldstein, J. L., 975
 Gordon, T., 2092
 Göschke, H., 1398
 Gould, J., 818
 Graham, G. G., 1939, 1941
 Green, R., 947
 Greenberg, G. R., 531
 Greenlee, H. B., 1826
 Griminger, P., 932
 Grundy, S. M., 985
 Guindi, S., 1098
 Guire, K. E., 461
 Gupta, M., 1974
 Gupta, R., 1974
 Guthrie, G. M., 1940
 Guthrie, H. A., 1940
 Guyot, M., 2041
 Guzman, I. J., 1006
 Guzman, V., 1940
 Gyntelberg, 716
 Gyr, K., 1390, 1393
 Habicht, J. P., 851
 Hagemann, R. F., 918
 Hallberg, L., 539
 Hambraevs, L., 441

AUTHOR INDEX

- Hammel, E. P., 409, 419
 Hanumantha Rao, D., 1612
 Haqvani, A. H., 1094
 Harono, Y., 924
 Harouchi, A., 2041
 Harper, J. M., 955
 Harrill, I., 431, 1414
 Harrison, J. E., 326
 Hartenbower, D. L., 1064
 Hartgrink, C., 1887
 Hatlen, L., 1054
 Haworth, J. C., 698
 Hazelwood, C. F., 1439
 Heaney, R. P., 1603
 Hegenauer, J., 655, 1054
 Hegsted, D. M., 131, 465,
 1713
 Hein, K., 496
 Henderson, K., 1349
 Hentgee, D. J., 1762
 Herbert, V., 297
 Hermos, J. A., 1819
 Hernell, O., 508
 Hersh, T., 552
 Heywood, P. F., 1726
 Higgins, I. T. T., 721
 Hill, L. L., 861
 Hinshaw, W., 652
 Hiroto, H., 1670
 Ho, K-J., 151, 255
 Hodges, R. E., 796, 803,
 1175, 1571
 Hofmann, A. F., 993
 Holliday, M., 565
 Holloszy, J. O., 716
 Holt, A. B., 851
 Holzbach, R. T., 43
 Hoobler, I. M., 1935
 Hornstein, I., 1204
 Horwitt, M. K., 131
 Hoshi, M., 924
 Huang, P-C., 728
 Huber, A. M., 226
 Hull, J., 664
 Hum, C., 1153
 Hunscher, H. A., 1935
 Hurley, L. S., 528, 1629
 Hutcheson, D. P., 176
 Hsu, S-J., 728
 Iber, F. L., 4
 Igarashi, Y., 1670
 Ilinov, P., 664
 Ingelfinger, J. A., 1921
 Isaacs, J. W., 552
 Ismail-Beigi, F., 1721
 Isokoshi, M., 476
 Izumi, K., 924
 Jackson, A. A., 1514
 Jacob, E., 298
 Jain, R. C., 1380
 Jansen, C., 1414
 Jansen, G. R., 955
 Jansen, N. B., 955
 Jeejeebhoy, K. N., 531, 1110
 Jeevanandam, M., 1340
 Johnson, B. A., 1289
 Johnson, N. E., 215
 Johnson, P. E., 654, 873
 Johnson, S. F., 135
 Johnson, V. L., 1285
 Johnsson, V., 1106
 Julis, R. E., 652
 Jussila, J., 476
 Kalucy, R. S., 109, 138
 Kaminski, M. V., Jr., 1357,
 1512
 Kane, J. P., 160, 1953
 Kaneuchi, C., 1799
 Kannel, W. B., 2092
 Kapikian, A. Z., 1857
 Kaplan, S., 1482
 Kaplowitz, N., 1953
 Kawai, Y., 1777
 Kay, R. M., 171
 Keating, J. P., 1506
 Keating, M. J., 1904
 Keen, C. L., 528
 Kelsay, J. L., 2016
 Kennedy, L. R., 1285
 Ketteltut, L. L., 1106
 Keusch, G. T., 1211, 1233
 Keyser, A., 1661
 Kibrick, S., 1871, 1876
 Kielmann, A. A., 592
 Kim Thuc, T., 468
 Kies, C., 371, 1942
 Kim, B. M., 1340
 Kim, Y., 664
 Kimzey, S. L., 1439
 King, J. C., 286
 Kinney, J.M., 1340
 Kjøsen, B., 1591
 Klayman, J. E., 704
 Klipstein, F. A., 1703
 Klish, W. J., 861
 Klotz, A. P., 1597
 Knipp, J., 21
 Knittle, J. L., 762
 Kockum, C., 1963
 Kohant, E. C., 861
 Kohler, G. O., 2061
 Kohrs, M. B., 1196
 Konijn, A. M., 840
 Konno, T., 1670
 Korslund, M. K., 371, 879,
 1942
 Kositawattanakul, T., 1686
 Kottke, B. A., 394
 Kritchevsky, D., 979
 Kromal, R. A., 1215
 Kronfeld, D. S., 409, 419
 Krumdieck, C. L., 255, 1379,
 1583, 2028
 Kudchodkar, B. J., 1135
 Kuhnlein, H. V., 883
 Kulapongs, P., 367
 Kummerow, F. A., 664
 Lamphiear, D. E., 712
 Laouari, D., 2041
 Larkin, F. A., 712
 Lautzenheiser, M., 1382
 Lawton, W. J., 549
 Laycock, J. D., 147
 Layrisse, M., 1166
 Lee, P. A., 1953
 Lehmann, S. M., 1781
 Leichter, J., 375, 1583
 Leichter, S. B., 2053
 Leitzmann, C., 449
 Leklem, J. E., 691, 1122
 Leon, G. R., 785
 Leutenegger, A., 1398
 Lewis, J. S., 2023
 Lewis, S. B., 160, 1953, 2053
 Lifshitz, F., 482, 1811
 Linkswiler, H. M., 1122
 Little, J. S., 1359
 Lithell, H., 517
 Liu, C. T., 1439
 Liu, G. J. K., 1106
 Livingston, A. L., 2061
 Lockwood, D. H., 58
 Lodge, J. R., 1162
 Long, C. L., 1301, 1340,
 1349, 1369

- Long, J. M., III, 806
 Loria, R. M., 1871, 1876
 Luckey, T. D., 1753
 Lueker, R., 2068
 Lundak, R. L., 512
 Ljungqvist, B., 499
- Macdonald, I., 1661
 Madsen, D., 1999
 Magazanik, A., 1026
 Makdani, D., 2033
 Maksud, M. G., 1740
 Malinow, M. R., 2061
 Marcondes, E., 1447
 Margo, G., 947
 Margolis, A., 2041
 Marks, V., 138
 Marliss, E. B., 531
 Martin, M. M., 1629
 Martínez-Torres, C., 1166
 Mason, D. T., 1135
 Masoro, E. J., 1311
 Mastromarino, A., 1896
 Mata, L., 1834
 Mata, L. J., 1215
 Mathur, V. S., 1979
 Matos, J., 704
 Matthusen, M., 1082
 Mayoral, L. G., 1044
 McCabe, K., 461, 1935
 McCamman, S., 1655
 McClain, P. E., 1709
 McDougal, W. S., 1498
 McGandy, R. B., 868, 1185
 McLaughlin, P., 2061
 McMenamy, R. H., 2078
 McMurray, D. N., 599, 1944
 McNamara, H., 496
 Mebus, C. A., 1851
 Mehta, S., 1979
 Meiners, C. R., 879
 Mejía, L. A., 1175
 Mellits, E. D., 1018
 Mendeloff, A. I., 128
 Metz, J., 947
 Metzner, H. L., 712
 Meyer, K. K., 1734
 Mickelsen, O., 2033
 Miller, J. D. B., 1523, 1528
 Miller, O. N., 741
 Millikan, W. J., 552
 Mitchell, D., 147
 Mitsuoka, T., 1799
- Modan, M., 1026
 Mohs, E., 1834
 Monsen, E. R., 235
 Moody, M. R., 1911
 Moore, R. N., 1289
 Morin, R. J., 32
 Morrison, R. D., 695
 Morse, E. H., 568
 Moser, P. B., 2016
 Moxley, R. T., 58
 Muksud, M. G., 316
 Murray, A. B., 2117
 Murray, C. J., 2117
 Murray, M. B., 2117
 Murray, M. J., 812, 2117
 Murray, T. K., 1573
 My Lien, N., 1734
 Myres, A. W., 133
- Nadamuni Naidu, A., 1612
 Naidu, A. N., 322
 Narang, R. K., 1979
 Nelson, R. A., 394
 Nelson, S. E., 939
 Neufeld, H. A., 1357, 1512
 Newmark, H. L., 299
 Nichols, B. L., 1439, 1457,
 1491
 Nickell, E. C., 1009
 Nino, H. V., 226
 Nisoli, M., 1398
 Nondasuta, A., 868, 1185
 Norman, A. W., 1064
 Nozawa, T., 1009
 Nunn, K. P., 2023
 Nwuga, V. C. B., 1423
- O'Dell, M., 1349
 O'Donnell, A. M., 939
 Oesterling, M. J., 182
 Ohgaku, S., 924
 Ohira, Y., 910
 Olivecrona, T., 508
 Olsen, L. K., 1162
 Olson, R. E., 367
 Olsson, M., 499
 Onderdonk, A. B., 1819
 Ostrup, R., 1054
 Owen, G. M., 1935
- Paez, J., 1826
 Paige, D. M., 1018
 Palmblad, J., 1963
- Palti, H., 268
 Palumbo, P. J., 394
 Panijpan, B., 1680, 1686
 Papworth, L., 2061
 Paris, J. E., 819
 Passaro, E., Jr., 76
 Patrick, J., 1478
 Pauling, L., 661
 Payne, J. H., 101
 Payne-Bose, D., 695
 Peck, C. C., 652
 Pekarek, R. S., 654
 Pellett, P. L., 1382
 Pelletier, O., 2108
 Pencharz, P., 829
 Penttilä, I. M., 476
 Pergolizzi, R., 482
 Peters, R. L., 51, 53
 Peterson, J. P., 1498
 Philipps, C., 215
 Phillips, F., 1009
 Phillips, R. L., 1781
 Picou, D., 1333, 1345, 1514
 Pietarinen, G. J., 375
 Pieters, L., 2088
 Pirie, A., 1968
 Pitkin, R. M., 1087
 Pilkington, T. R. E., 109
 Pisolyabutra, U., 868, 1185
 Pollard, J., 664
 Pongpaew, P., 2122
 Porikos, K. P., 1638
 Porter, M. W., 490
 Portela, M. L., 191
 Potera, C., 1677
 Powanda, M. C., 1254
 Pozefsky, T., 58
 Prather, E. S., 2016
 Pratt, R. F., 375
 Privett, O. S., 1009
 Promkutkao, C., 1185
 Pueschel, S. M., 1153
- Quaade, F., 16
 Quarfordt, S. H., 967
 Quarterman, D., 742
 Quiter, E., 1070
 Qureshi, N., 1094
- Ramberg, C. F., Jr., 419
 Ramdeo, I. N., 1974
 Rand, W. M., 1129
 Rao, B. S. N., 322

AUTHOR INDEX

- RayField, E. J., 573
 Recker, R. R., 1603
 Reeds, P. J., 1514
 Reeves, R. D., 579
 Regné-Karlsson, M. H., 1285
 Reinhardt, G. F., 1826
 Reinhold, J. G., 1721
 Rennie, M. J., 716
 Reshef, A., 268
 Rey, H., 1944
 Reyes, M. A., 599
 Rhodes, J. B., 1655
 Richardson, B. D., 2088
 Ricour, C., 2041
 Rienhoff, H., 1523
 Rienhoff, H. Y., 1528
 Rill, W. L., 1359
 Rio, M. E., 191
 Ripley, L., 1054
 Ritchev, S. J., 879
 Robertson, C. S., 579
 Rodriguez, V., 1904
 Rolfe, R. D., 1762
 Romond, C., 1770
 Rondier, J., 463
 Rose, D. P., 691, 1122, 1677
 Rosenberg, I. H., 1248
 Rossander, L., 539
 Rubulis, A., 21
 Rudman, D., 552, 1070
 Rungruangsak, K., 1680
- Sahi, T., 476
 Sakamoto, A., 924
 Saltman, P., 655, 1054
 Samonds, K. W., 355
 Sanahuja, J. C., 191
 Sanchez, M., 275
 Sandson, J. I., 822
 Saovakontha, S., 2122
 Sarna, S., 476
 Satyanarayana, K., 322
 Sauberlich, H. E., 1198
 Saville, P. D., 1603
 Sawicki, J. E., 652
 Schade, D. S., 2068
 Schaefer, O., 1623
 Scheiner, J., 299
 Schelp, F. P., 2122
 Schiller, W. R., 1349
 Schlesinger, L., 1377
 Schneider, R. E., 1248
 Schonfeld, G., 716
- Schwarz, K. B., 1506
 Scrimshaw, N. S., 466, 1129,
 1518, 1536, 1983
 Scott, H. W., Jr., 90
 Seban, A., 840
 Segal, S., 209
 Seim, S. H., 1591
 Senewiratne, B., 910
 Serrato, G., 1834
 Settipane, G. A., 1023
 Shambaugh, G. E., III, 2083
 Shapcott, D., 134, 1379
 Shaw, H. A., 461, 1935
 Shemesh, A., 135
 Shemesh, R., 135
 Sheng, Y.-B., 887
 Shephard, R. J., 326
 Sherman, C. D., 21
 Sherman, C. D., Jr., 98
 Shichiri, M., 924
 Shigeta, Y., 924
 Shigetomi, C. T., 955
 Shilotri, P. G., 1077
 Shimizu, Y., 924
 Shimasaki, H., 1009
 Shipley, E. A., 659
 Shrago, E., 691
 Shull, H. J., 90
 Shvartz, E., 1026
 Sidney, K. H., 326
 Sklan, D., 681
 Soderberg, F. B., 1921
 Sodhi, H. S., 1135
 Solomons, N. W., 1248
 Solow, C., 103
 Soriano, H. A., 1457
 Sorlie, P., 2092
 Smith, A. N., 658
 Smith, D. P., 560
 Smith, G. P., 758
 Smith, I. M., 1285, 1364
 Smith, L. M., 2006
 Smith, N. S., 742
 Speckman, E. W., 662
 Sperling, M. A., 32
 Sperotto, G., 1447
 Spiegel, H. E., 777
 Spiller, G. A., 659
 Spurr, G. B., 316, 1740
 Stackhouse, J., 552
 Stafford, C., 2061
 Standal, B. R., 2101
 Stauffer, J. Q., 64
- Stearns, G., 939
 Stegink, L. D., 388, 1036,
 1087
 Stephens, W. F., 147
 Stiehm, E. R., 1949
 Stein, M. R., 652
 Stokstad, E. L. R., 1378
 Stordy, B. J., 138
 Stragand, J. J., 918
 Strobel, L., 1512
 Suegara, N., 1777
 Sugihara, P. T., 1781
 Sullivan, A. C., 767, 777
 Suskind, R., 367
 Suttapreyasri, D., 1185
 Sutter, V. L., 1781
 Suwanik, R., 539
 Suzuki, H., 1670
 Svanberg, U., 499
 Swenson, W. M., 135
 Szepesi, B., 1692
- Tamura, T., 1378
 Tantiwongse, P., 868, 1185
 Taper, L. J., 879
 Taylor, P. R., 523
 Teichberg, S., 482
 Ternberg, J. L., 1506
 Terry, B. E., 887, 900
 The Anh, N., 468
 Thölen, H., 1398
 Thompson, R. W., 1576,
 1583, 2028
 Thorp, S., 686
 Thye, F. W., 381
 Tiangha, M. F., 2101
 Tillotson, J., 2092
 Torún, B., 1175, 1983
 Tosukhowong, P., 1680, 1686
 Trerice, M., 1523, 1528
 Triscari, J., 767, 777
 Trostler, N., 681
 Trowell, H., 1003
 Truswell, A. S., 171
 Tye, J. G., 599
- Urrutia, J. J., 1215, 1834
- Valek, J., 664
 Vanderlip, J., 655
 Van der Waaij, D., 1887
 Van der Walt, L. A., 847
 Van Italiae, T. B., 20, 119,
 742, 1638, 1929

- Varco, R. L., 1006
Vaughan, D. A., 1709
Venkataswamy, G., 1968
Vessby, B., 517
Viart, P., 334, 349
Villanueva, D., 1044
Vimokesant, S. L., 1680,
 1686
Viravaidhaya, V., 1185
Vitale, J. J., 795, 801, 1473
Viteri, F., 1175, 1439
Vobecsky, J., 134
Vobecsky, J. S., 134
Voors, A. W., 582
Vossen, J. M., 1887

Wahbeh, N., 1098
Waldman, R., 1843
Walker, A. R. P., 1938
Walker, P., 512
Wales, A., 136, 300, 657
Wallin, J. D., 160, 1953
Wannemacher, R. W., Jr.,
 573, 1269, 1357, 1510,
 1512

Wapnir, R. A., 482
Ward, C., 1054
Warnold, I., 304
Waslien, C. I., 1098
Waterlow, J. C., 1333, 1345,
 1353
Watson, R. R., 599, 1944
Weathersbee, P. S., 1162
Webber, L. S., 582
Weber, C. W., 2047
Weidman, S. W., 716
Weinberg, E. D., 1485
Wells, I. D., 512
Welsh, J. D., 468, 695
Wenz, E., 198
Weser, E., 470
Wheeler, L. A., 1921
Wheeler, N. C., 712
Whitehead, R. G., 1281,
 1545
Wideman, L., 176
Williams, R. B., 300
Williamson, M., 198
Wilmore, D. W., 1355, 1498
Wilson, R., 1896

Wilson, R. B., 176
Winick, M., 1734
Winkelman, E. I., 14
Winterer, J. C., 1518
Wispe, J., 388
Wixom, R. L., 887, 900
Womack, M., 1709
Wong, K-T. J., 298
Wostmann, B. S., 1999
Woteki, C. E., 470
Wyatt, R. G., 1857
Wyman, J. B., 1376

Yamanaka, W., 490
Yamanaka, W. K., 900
Yost, B., 209
Young, E. A., 470
Young, V. M., 1911
Young, V. R., 466, 1129,
 1983
Yudkoff, M., 209

Zain, B. K., 1094
Ziegler, E. E., 939
Zlotlow, M. J., 1023



The American Journal of **CLINICAL NUTRITION**

Official Journal of The American Society for Clinical Nutrition, Inc.



VOLUME 30

January–December 1977

Copyright © 1977 by The American Society for Clinical Nutrition, Inc.

CONTENTS

VOLUME 30

Number 1, January 1977

Symposium on Jejunoileostomy for Obesity. Organizing chairman—W. W. Faloon

- 1 Introductory remarks. *W. W. Faloon*
- 4 Jejunoileal bypass for the treatment of massive obesity. Prevalence, morbidity, and short- and long-term consequences. *F. L. Iber and M. Cooper*
- 14 Discussion. *E. I. Winkelmann et al.*
- 16 Studies of operated and nonoperated obese patients. An interim report on the Scandinavian Obesity Project. *F. Quaade*
- 20 Discussion. *T. B. Van Itallie et al.*
- 21 Fecal fat, bile acid, and sterol excretion and biliary lipid changes in jejunoileostomy patients. *W. W. Faloon, A. Rubulis, J. Knipp, C. D. Sherman, and M.S. Flood*
- 32 Intestinal adaptation following jejunoileal bypass in man. *R. E. Barry, J. Barisch, G. A. Bray, M. A. Sperling, R. J. Morin, and J. Benfield*
- 41 Discussion. *H. Buchwald, E. J. Drenick et al.*
- 43 Hepatic effects of jejunoileal bypass for morbid obesity. *R. T. Holzbach*
- 51 Discussion. *R. L. Peters et al.*
- 53 Patterns of hepatic morphology in jejunoileal bypass patients. *R. L. Peters*
- 58 Effect of oral amino acid supplementation on the liver disease after jejunoileal bypass for morbid obesity. *D. H. Lockwood, J. M. Amatruda, R. T. Moxley, T. Pozefsky, and J.K. Boitnott*
- 63 Discussion. *S. A. Adibi et al.*
- 64 Hyperoxaluria and calcium oxalate nephrolithiasis after jejunoileal bypass. *J. Q. Stauffer*
- 71 Discussion. *R. E. Barry and W. W. Faloon et al.*
- 72 Perspectives on incidence, etiology, and treatment of enteric hyperoxaluria. *D. L. Earnest*
- 76 Bypass enteropathy: an inflammatory process in the excluded segment with systemic complications. *E. J. Drenick, M. E. Ament, S. M. Finegold, and E. Passaro, Jr.*
- 89 Discussion. *W. W. Faloon et al.*
- 90 Morbid obesity: problems associated with operative management. *R. H. Dean, H. W. Scott, H. J. Shull, and F. W. Gluck*
- 98 Revision operations after bowel bypass for obesity. *C. D. Sherman, Jr., W. W. Faloon, and M. S. Flood*
- 101 Discussion. *J. H. Payne*
- 103 Psychosocial aspects of intestinal bypass surgery for massive obesity: current status. *C. Solow*
- 109 Some psychosocial consequences of ileojejunal bypass surgery. *A. H. Crisp, R. S. Kalucy, T. R. E. Pilkington, J-C. Gazet*
- 119 Discussion. *T. B. Van Itallie et al.*
- 121 Intestinal bypass for obesity: a summary and perspective. *G. A. Bray and J. R. Benfield*
- 128 Critique and recommendations. *A. I. Mendeloff*

announcements

Number 2, February 1977

letters to the editor

- 131 Objections to the Caster and Parthemos paper. *D. M. Hegsted and L. M. Ausman*
- 131 Variety in the diet is the best approach to good nutrition. *M. K. Horwitt*

VOLUME CONTENTS

- 132 Nutrition and breakfast cereals—philosophy of research. *F. M. Clydesdale*
132 Reply by Drs. Caster and Dent. *W. O. Caster and M. Dent*
133 Serum vitamin C levels in infants. *A. W. Myres*
134 Reply to Dr. A. W. Myres. *J. S. Vobecky, J. Vobecky, D. Shapcott, and R. Blanchard*
135 Personality characteristics in obesity. *A. Shemesh and R. Shemesh*
135 Reply to Shemesh and Shemesh. *S. F. Johnson, W. M. Swenson, and C. F. Gastineau*
136 The role of hypoinsulinism in coronary heart disease. *A. Wales*
136 The problem of words. *W. B. Bean*

original communications

- 138 Weight gain, thermic effect of glucose and resting metabolism rate during recovery from anorexia nervosa. *B. J. Stordy, V. Marks, R. S. Kalucy, and A. H. Crisp*
147 Motion sickness-induced pica in the rat. *D. Mitchell, J. D. Laycock, and W. F. Stephens*
151 Cholesterol metabolism in patients with resection of ileum and proximal colon. *K-J. Ho and J. L. Bondi*
160 Effect of diet composition on metabolic adaptations to hypocaloric nutrition: comparison of high carbohydrate and high fat isocaloric diets. *S. B. Lewis, J. D. Vallin, J. P. Kane, and J. E. Gerich*
171 Effect of citrus pectin on blood lipids and fecal steroid excretion in man. *R. M. Kay and A. S. Truswell*
176 Dimethylhydrazine-induced colon tumors in rats fed diets containing beef fat or corn oil with and without wheat bran. *R. B. Wilson, D. P. Hutcheson, and L. Wideman*
182 Placental phosphatase of maternal serum: relationship to pregravid weight, prenatal weight gain, and infant birthweight in normal human pregnancies. *M. J. Oesterling, S. E. Cox, and E. R. Carrington*
191 Effect of maternal dietary amino acid pattern on rat offspring. *M. L. Portela, M. E. Rio, and J. C. Sanahuja*
198 Nutrient intake of treated infants with phenylketonuria. *P. B. Acosta, E. Wenz, and M. Williamson*
209 Phenylalanine-tyrosine deficiency syndrome as a complication of the management of hereditary tyrosinemia. *R. M. Cohn, M. Yudkoff, B. Yost, and S. Segal*
215 The impact of quality of diet and other factors on birth weight of infants. *C. Phillips and N. E. Johnson*
226 Studies of the elderly in Boston. I. The effects of iron fortification on moderately anemic people. *S. N. Gershoff, O. A. Brusis, H. V. Nino, and A. M. Huber*
235 Vitamin C, the common cold, and iron absorption. *J. D. Cook and E. R. Monsen*

special article

- 242 Guidelines on the at-risk concept and the health and nutrition of young children.
International Union of Nutritional Sciences Report

comments in biochemistry

- 255 Intestinal regulation of hepatic cholesterol synthesis: an hypothesis. *C. L. Krundieck and K-J. Ho*

perspectives in nutrition

- 262 Relationships between diseases and their etiological significance. *D. P. Burkitt*

nutrition survey

- 268 A semilongitudinal study of food intake, anemia rate, and body measurements of 6 to 24-month-old children in a Jerusalem community. *H. Palti, B. Adler and A. Reshef*

International nutrition

- 275 Lack of correlation between thyroid size and body growth in an area of endemic goiter.
A. Bautista, P. A. Barker, J. T. Dunn, and M. Sanchez

nutrition news

- 280 Western hemisphere nutrition congress V

- 281 announcements

- 283 book reviews

Number 3, March 1977

letters to the editor

- 297 Destruction of vitamin B₁₂ by vitamin C. *V. Herbert, E. Jacob, and K-T. J. Wong*
299 Destruction of vitamin B₁₂ by vitamin C. *H. L. Newmark and J. Scheiner*
300 The role of the combination of sucrose and milk in diabetes mellitus. *A Wales*
300 Zinc balance during pregnancy and lactation. *N. T. Davies and R. B. Williams*
301 Answer to Drs. Davies and Williams. *G. W. Evans*
302 The energetic joule. *N. W. Flodin*

original communications

- 304 Evaluation of the heart rate method to determine the daily energy expenditure in disease. A study in juvenile diabetics. *I. Warnold and R. Arvidsson Lenner*
316 Productivity and maximal oxygen consumption in sugar cane cutters. *G. B. Spurr, M. Barac-Nieto, and M. G. Maksud*
322 Body size and work output. *K. Satyanarayana, A. N. Naidu, B. Chatterjee, and B. S. N. Rao*
326 Endurance training and body composition of the elderly. *K. H. Sidney, R. J. Shephard, and J. E. Harrison*
334 Hemodynamic findings in severe protein-calorie malnutrition. *P. Viart*
349 Blood volume changes during treatment of protein-calorie malnutrition. *P. Viart*
349 Blood volume changes during treatment of protein-calorie malnutrition. *P. Viart*
355 Protein and calorie malnutrition in infant cebus monkeys: growth and behavioral development during deprivation and rehabilitation. *M. F. Elias and K. W. Samonds*
367 Defective local leukocyte mobilization in children with kwashiorkor. *P. Kulapongs, R. Edelman, R. Suskind, and R. E. Olsen*
371 Protein nutrition value of urea supplementation of opaque-2 corn for adolescent boys. *M. K. Korslund, C. Kies, and H. M. Fox*
375 Dietary folate intake and concentration of folate in serum and erythrocytes in women using oral contraceptives. *G. J. Pietarinen, L. Leichter, and R. F. Pratt*
381 The effects of an oral contraceptive on plasma growth hormone and glucose tolerance in two strains of rats. *T. S. Arnold and F. W. Thye*
388 Absence of the biochemical symptoms of essential fatty acid deficiency in surgical patients undergoing protein sparing therapy. *L. D. Stegink, J. B. Freeman, J. Wispe, and W. E. Connor*
394 Sucrose sensitivity of patients with coronary-artery disease. *P. J. Palumbo, E. R. Briones, R. A. Nelson, and B. A. Kottke*
402 Effect of carbohydrate restriction and high carbohydrate diets on men with chemical diabetes. *J. W. Anderson*

- 409 Metabolic responses to exhaustive exercise in racing sled dogs fed diets containing medium, low, or zero carbohydrate. *E. P. Hammel, D. S. Kronfeld, V. K. Ganjam, and H. L. Dunlap, Jr.*
- 419 Hematological and metabolic responses to training in racing sled dogs fed diets containing medium, low, or zero carbohydrate. *D. S. Kronfeld, E. P. Hammel, C. F. Ramberg, Jr., H. L. Dunlap, Jr.*

nutrition survey

- 431 Vitamin status of older women. *I. Harrill and N. Cervone*

international nutrition

- 441 The protein quality of instant blends for infants and children based on milk or cereal and milk. *L. Abrahamsson and L. Hamraeus*

report of a meeting

- 449 Conference report. Second Nutrition Conference, Munich, September 14-17, 1976. *C. Leitzmann and I. Elmadfa*

451 Program, Seventeenth Annual Meeting ASCN**455 announcements****456 book reviews**

Number 4, April 1977

letters to the editor

- 461 Apportioning black-white hemoglobin and hematocrit differences during pregnancy. *S. M. Garn, H. A. Shaw, K. E. Guire, and K. McCabe*
- 463 Lack of effect of two pectins in idiopathic or gout-associated hyperdyslipidemia hypercholesterolemia. *F. Delbarre*
- 465 Safe allowance of protein. *D. M. Hegsted*
- 466 Reply to Dr. Hegsted. *N. S. Scrimshaw, V. R. Young, and C. Garza*

original communications

- 468 Lactose malabsorption in adult Vietnamese. *N. T. Anh, T. K. Thuc, and J. D. Welsh*
- 470 Lactose malabsorption in Mexican-American adults. *C. E. Woteki, E. Weser, and E. A. Young*
- 476 Serum lipids and proteins in lactose malabsorption. *T. Sahi, J. Jussila, I. M. Penttilä, S. Sarna, and M. Isokoski*
- 482 Interaction between dietary carbohydrates and intestinal disaccharidases in experimental diarrhea. *R. Pergolizzi, F. Lifshitz, S. Teichberg, and R. A. Wapnir*
- 490 Effect of dietary egg on serum cholesterol and triglyceride of human males. *M. W. Porter, W. Yamanaka, S. D. Carlson, and M. A. Flynn*
- 496 Racial differences in nitrogen content of nails among adolescents. *K. Hein, M.I. Cohen, and H. McNamara*
- 499 Breast milk composition in Ethiopian and Swedish mothers. III. Amino acids and other nitrogenous substances. *U. Svanberg, M. Gebre-Medhin, B. Ljungqvist, and M. Olsson*
- 508 Breast milk composition in Ethiopian and Swedish mothers. IV. Milk lipases. *O. Hernell, M. Gebre-Medhin, and T. Olivecrona*

- 512 A potential diagnostic method for food allergy: clinical application and immunogenicity evaluation of an elemental diet. *S. P. Galant, M. L. Franz, P. Walker, I. D. Wells, and R. L. Lundak*
- 571 Supplementation with vitamin E in hyperlipidemic patients treated with diet and clofibrate. Effects on serum lipoprotein concentrations, plasma fatty acid composition and adipose tissue lipoprotein lipase activity. *B. Vessby, H. Lithell, and J. Boberg*
- 532 Influence of histidine administration on zinc metabolism in the rat. *R. M. Freeman and P. R. Taylor*
- 528 Zinc absorption through skin: correction of zinc deficiency in the rat. *C. L. Keen and L. S. Hurley*
- 531 Chromium deficiency, glucose intolerance, and neuropathy reversed by chromium supplementation, in a patient receiving long-term total parenteral nutrition. *K. N. Jeejeebhoy, R. C. Chu, E. B. Marliss, G. R. Greenberg, and A. Bruce-Robertson*
- 539 Iron absorption from Southeast Asian diets. II. Role of various factors that might explain low absorption. *L. Hallberg, E. Björn-Rasmussen, L. Rossander, and R. Suwanik*
- 549 Phosphorus metabolism in potassium-deficient rats. *R. M. Freeman and W. J. Lawton*
- 552 Parenteral nutrition of adults with 900 milliosmolar solution via peripheral veins. *J. W. Isaacs, W. J. Millikan, J. Stackhouse, T. Hersh, and D. Rudman*
- 560 Prediction of body density and lean body weight in females 25 to 37 years old. *D. P. Smith and R. W. Boyce*
- 565 Oxygen consumption in the azotemic rat. *R. D. Adelman and M. Holliday*
- 568 Comparison of the nutritional status of pregnant adolescents with adult pregnant women. III. Maternal protein and calorie intake and weight gain in relation to size of infant at birth. *G. Ancri, E. H. Morse, and R. P. Clarke*
- 573 Effect of glucose infusion on the concentration of individual serum free amino acids during sandfly fever in man. *R. W. Wannemacher, R. E. Dinterman, E. J. Rayfield, and W. R. Beisel*
- 579 Failure of histidine supplementation to improve anemia in chronic dialysis patients. *R. D. Reeves, G. L. Barbour, C. S. Robertson and C.K. Crumb*

nutrition survey

- 582 Anthropometric and maturation measurements of children, ages 5 to 14 years, in a biracial community—the Bogalusa Heart Study. *T. A. Foster, A. W. Voors, L. S. Webber, R. R. Frerichs, and G. S. Berenson*

international nutrition

- 592 Weight fluctuations after immunization in a rural preschool child community. *A. A. Kielmann*
- 599 Pancreatic and salivary amylase activity in undernourished Colombian children. *R. R. Watson, J. G. Tye, D. N. McMurray, and M. A. Reyes*

605 special announcement**607 Program, Seventeenth Annual Meeting, ASCN****611 Abstracts****643 announcements****644 book reviews**

Number 5, May 1977

letters to the editor

- 649 Human chorionic gonadotropin in weight reduction. *P. Bradley*
- 652 Human chorionic gonadotropin in weight reduction: a reply. *M. R. Stein, R. E. Julis,*

VOLUME CONTENTS

C. C. Peck, W. Hinshaw, J. E. Sawicki, and J. J. Deller, Jr.

- 654 Editor's note.
654 Anemia infection or bioavailable copper? *G. W. Evans, R. S. Pekarek, K. G. D. Allen, and P. E. Johnson*
655 Reply to Evans et al. *J. Hegenauer, P. Saltman, and J. Vanderlip*
657 The role of the combination of dead cells and neutral fats of the body in cancer. *A. Wales*
658 Nomenclature and definition of dietary fiber. *M. A. Eastwood and A. N. Smith*
659 Can fecal weight be used to establish a recommended intake of dietary fiber (plantix)?
G. A. Spiller, M. C. Chernoff, E. A. Shipley, M. A. Beigler, and G. M. Briggs
661 Diet, nutrition, and cancer. *L. Pauling*
662 Diet, nutrition, and cancer. *E. N. Alcantara and E. W. Speckmann*

original communications

- 664 The influence of egg consumption on the serum cholesterol level in human subjects.
F. A. Kummerow, Y. Kim, J. Hull, J. Pollard, P. Ilinov, D. L. Dorossiev, and J. Valek
674 Lysine and tryptophan in cereal-based diets for adult human subjects. *H. E. Clark,
L. B. Bailey, and M. F. Brewer*
681 Milk composition and thiamine transfer in thiamine deficient rats. *N. Trostler and D. Sklan*
686 Factors affecting the exchange of tocopherol between red blood cells and plasma.
J. G. Bieri, R. P. Evarts, and S. Thorp
691 Effect of oral alanine loads on the serum triglycerides of oral contraceptive users and
normal subjects. *D. P. Rose, J. E. Leklem, L. Fardal, R. B. Baron, and E. Shrago*
695 Milk and lactose-hydrolyzed milk. *D. Payne-Bose, J. D. Welsh, H. L. Gearhart, and
R. D. Morrison*
698 Disaccharide consumption and malabsorption in Canadian Indians. *J. J. Ellestad-Sayed
and J. C. Haworth*
704 Newborn body composition and its relationship to linear growth. *A. R. Frisancho,
J. E. Klayman, and J. Matos*
712 The relationship between frequency of eating and adiposity in adult men and women in the
Tecumseh Community Health Study. *H. L. Metzner, D. E. Lamphier, N. C. Wheeler,
and F. A. Larkin*
716 Plasma triglyceride lowering by exercise despite increased food intake in patients with type IV
hyperlipoproteinemia. *F. Gyntelberg, R. Brennan, J. O. Holloszy, G. Schonfeld,
M. J. Rennie, and S. W. Weidman*

nutrition survey

- 721 Level of education, level of income, and level of fatness in adults. *S. M. Garn,
S. M. Bailey, P. E. Cole, and I. T. T. Higgins*

nutrition education

- 726 An aid to teaching nutrient requirements and allowances. *F. Bronner*

international nutrition

- 728 Vitamin E status of Chinese population in Taiwan. *L. H. Chen, S-J. Hsu, P-C. Huang,
and J-S. Chen*

symposium

- Metabolic, hormonal, and neural regulation of feeding and its relationship to obesity
741 Preface. *O. N. Miller*
742 Short-term and long-term components in the regulation of food intake: evidence for a
modulatory role of carbohydrate status. *T. B. Van Itallie, N. S. Smith, and
D. Quartermain*
758 Cholecystokinin and satiety in rats and rhesus monkeys. *J. Gibbs and G. P. Smith*

- 762 Adipose tissue development in man. *J. L. Knittle, F. Ginsberg-Fellner, and R. E. Brown*
 767 Metabolic regulation as a control for lipid disorders. I. Influence of (—)-hydroxycitrate
 on experimentally induced obesity in the rodent. *A. C. Sullivan and J. Triscari*
 777 Metabolic regulation as a control for lipid disorders. II. Influence of (—)-hydroxycitrate
 on genetically and experimentally induced hypertriglyceridemia in the rat. *A. C. Sullivan,
 J. Triscari, and H. E. Spiegel*
 785 A behavioral approach to obesity. *G. R. Leon*

symposium

- Teaching nutrition in medical schools
 795 Introduction. *J. J. Vitale*
 796 Foreword. *R. E. Hedges*
 797 Nutrition education in postgraduate medical education: medicine. *C. W. Callaway*
 801 Nutrition education in the preclinical period of medical education. *J. J. Vitale*
 803 Nutrition education in the clinical years. *R. E. Hedges*
 806 Nutritional education during surgical internship and residency. *J. M. Long and S. J. Dudrick*
 812 Contribution to the discussion of nutrition education in medical schools. *M. J. Murray*
 815 Postgraduate nutritional education. *G. L. Blackburn*
 818 Nutrition education during pediatric training. *J. Gould*
 819 Nutrition education during internship and residency training: medicine. *J. E. Paris*
 822 A perspective on education in nutrition. *J. I. Sanderson*

825 announcements**827 book reviews****Number 6, June 1977****831 McCollum Award****letters to the editor**

- 833 Effect of dietary fiber supplementation in man. *M. H. Floch and H-M. Fuchs*
 833 Zn deficiency in Turkey. *A.O. Çavdar, A. Arcasoy, and S. Cin*
 834 Allergic reactions to chocolate. *J. S. Ghosh*
 835 Assessing malnutrition with the mid-arm circumference. *G. Margo*
 837 Xylitol metabolism and oxalate formation. *Y. M. Wang, R. J. Oshinsky, and J. van Eys*
 838 Potential use and chemical composition of tarhui-chocho (*Lupinus mutabilis*).
A. J. Pontecorvo
 839 Growth of infants fed a zinc supplemented formula. *J. Silverio*
 839 Reply by Drs. Hambridge and Walravens. *K. M. Hambridge and P. A. Walravens*

original communications

- 840 Chemical and immunological properties of a protein hydrolysate formula. *A. Seban,
 A. M. Konijn, and S. Freier*
 847 Chloramphenicol binding to normal and kwashiorkor sera. *N. Buchanan and
 L. A. Van der Walt*
 851 Protein-calorie malnutrition and the significance of cell mass relative to body length.
D. B. Cheek, J. P. Habicht, J. Berall, and A. B. Holt
 861 Reduced renal acid excretion in malnutrition: a result of phosphate depletion. *E. C. Kohaut,
 W. J. Klish, C. W. Beachler, and L. L. Hill*
 868 Nutrition studies in Thailand. III. Trace minerals in human and rat hair. *S. N. Gershoff,
 R. B. McGandy, A. Nondasuta, U. Pisolyabutra, and P. Tantiwongse*
 873 Determination of zinc availability in foods by the extrinsic label technique. *G. W. Evans*

and P. E. Johnson

- 879 The relationship of zinc to protein utilization in the preadolescent child. *C. R. Meiners, L. J. Taper, M. K. Korslund, and S. J. Ritchey*
- 883 Minerals in human teeth: differences between preindustrial and contemporary Hopi Indians. *H. V. Kuhnlein and D. H. Calloway*
- 887 Total parenteral nutrition with selective histidine depletion in man. I. Responses in nitrogen metabolism and related areas. *R. L. Wixom, H. L. Anderson, B. E. Terry, and Y-B. Sheng*
- 900 Total parenteral nutrition with selective histidine depletion in man. II. Hematological, lipid, and hormonal responses. *B. E. Terry, W. K. Yamanaka, H. L. Anderson, and R. L. Wixom*
- 910 Physical work capacity and metabolic stress in subjects with iron deficiency anemia. *G. R. Gardner, V. R. Edgerton, B. Senewiratne, R. J. Barnard, and Y. Ohira*
- 918 Dietary influence on colonic cell renewal. *J. J. Stragnad and R. F. Hagemann*
- 924 Usefulness of matose for testing glucose tolerance. *Y. Harano, A. Sakamoto, K. Izumi, Y. Shimizu, M. Hoshi, M. Shichiri, Y. Shigeta, and H. Abe*
- 932 Amino acid maintenance requirements of young women and of adult rats fed different dietary amino acid patterns. *H. Fisher, P. Grininger, and M. K. Brush*
- 939 Nitrogen balance studies with normal children. *E. E. Ziegler, A. M. O'Donnell, G. Stearns, S. E. Nelson, L. F. Burmeister, and S. J. Fomon*

nutrition survey

- 947 Anemia in urban underprivileged children. Iron, folate, and vitamin B₁₂ nutrition. *G. Margo, Y. Baroni, R. Green, and J. Metz*

international nutrition

- 955 Effect of income and geographic region on the nutritional value of diets in Brazil. *G. R. Jansen, N. B. Jansen, C. T. Shigetomi, and J. M. Harper*

symposium**Disorders of cholesterol metabolism**

- 967 Methods for the in vivo estimation of human cholesterol dynamics. *S. H. Quarfordt*
- 975 Human mutation affecting the low density lipoprotein pathway. *M. S. Brown and J. L. Goldstein*
- 979 Dietary fiber and other dietary factors in hypercholesterolemia. *D. Kritchevsky*
- 985 Treatment of hypercholesterolemia. *S. M. Grundy*
- 993 Desaturation of bile and cholesterol gallstone dissolution with chemodeoxycholic acid. *A. F. Hofmann*

1001 announcements**1002 erratum**

Number 7, July 1977

letters to the editor

- 1003 Why a new term for dietary fiber? *H. Trowell*
- 1004 Elevated serum enteroglucagon after jejunointestinal bypass. *C. M. Frame*

brief communications

- 1006 Small bowel length in hyperlipidemia and massive obesity. *I. J. Guzman, L. L. Fitch, R. L. Varco, and H. Buchwald*

original communications

- 1009 Studies of effects of trans fatty acids in the diet on lipid metabolism in essential fatty acid deficient rats. *O. S. Privett, F. Phillips, H. Shimasaki, T. Nozawa, and E. C. Nickell*
- 1018 Lactose malabsorption in preschool black children. *D. M. Paige, T. M. Bayless, E. D. Mellits, and L. Davis*
- 1023 Allergic potential of food additives: a report of a case of tartrazine sensitivity without aspirin intolerance. *M. J. Zlotlow and G. A. Settipane*
- 1026 Absence of increased thermogenesis during short-term overfeeding in normal and overweight women. *Z. Glick, E. Shvartz, A. Magazanik, and M. Modan*
- 1036 Effect of diet on plasma aminograms of low birth weight infants. *L. J. Filer, Jr., L. D. Stegink, and B. Chandramouli*
- 1044 Dipeptide hydrolase activity of the intestinal mucosa from protein-malnourished adult patients and controls. *E. C. Gjessing, D. Villanueva, E. Duque, O. Bolanos, and L. G. Mayoral*
- 1054 Correlation of serum ferritin and liver ferritin iron in the anemic, normal, and iron-loaded rat. *C. Ward, P. Saltman, L. Ripley, R. Ostrup, J. Hegenauer, L. Hallen, and J. Christopher*
- 1064 Actions of 1 α -hydroxyvitamin D₃ and 1,25-dihydroxyvitamin D₃ on mineral metabolism in man. I. Effects on net absorption of phosphorus. *A. S. Brickman, D. L. Hartenbower, A. W. Norman, and J. W. Coburn*
- 1070 Role of diet in the management of vasopressin-responsive and -resistant diabetes insipidus. *T. Blalock, Jr., G. Geron, E. Quiter, and D. Rudman*
- 1077 Effect of mega doses of vitamin C on bactericidal activity of leukocytes. *P. G. Shilotri and K. S. Bhat*
- 1082 Components of 25-hydroxyvitamin D in serum of young children in upper midwestern United States. *S. B. Arnaud, M. Mathiesen, J. B. Gilkinson, and R. S. Goldsmith*
- 1087 Placental transfer of glucose-amino acid complexes present in parenteral solutions. *L. D. Stegink and R. M. Pitkin*
- 1094 Studies on the significance of hair root protein and DNA in protein-calorie malnutrition. *B. K. Zain, A. H. Haquani, N. Qureshi, and I. el Nisa*
- 1098 Folacin requirement of children. III. Normal infants. *R. Asfour, N. Wahbeh, C. I. Waslien, S. Guindi, and W. J. Darby*
- 1106 Chlorohydrocarbon pesticide residues in human milk in Greater St. Louis, Missouri 1977. *V. Jonsson, G. J. K. Liu, J. Armbruster, L. Kettelhut, and B. Drucker*
- 1110 Dose-response relationships between amino acid intake and blood levels in newborn infants. *G. H. Anderson, H. Bryan, K. N. Jeejeebhoy, and P. Corey*
- 1122 Metabolism of methionine in oral contraceptive users and control women receiving controlled intakes of vitamin B₆. *J. E. Leklem, H. M. Linkswiler, R. R. Brown, D. P. Rose, and C. R. Anand*
- 1129 Determination of protein allowances in human adults from nitrogen balance data. *W. M. Rand, N. S. Scrimshaw, and V. R. Young*
- 1135 Effects of acute caloric restriction on cholesterol metabolism in man. *B. J. Kudchodkar, H. S. Sodhi, D. T. Mason, and N. O. Borhani*

comments in nutrition

- 1147 The silent emergency: iatrogenically enhanced substrate deficiency in premature infants. *H. Ghadimi*

perspectives in nutrition

- 1153 Nutritional management of the female with phenylketonuria during pregnancy. *S. M. Pueschel, C. Hum, and M. Andrews*

nutrition survey

- 1162 Selected beverage consumption patterns among Mormon and non-Mormon populations from the same geographic location. *P. S. Weathersbee, L. K. Olsen, and J. R. Lodge*

methods in nutrition

- 1166 Fe(III)-EDTA complex as iron fortification. *M. Layrisse and C. Martínez-Torres*

international nutrition

- 1175 Vitamin A deficiency and anemia in central American children. *L. A. Mejía, R. E. Hodges, G. Arroyave, F. Viteri, and B. Torún*
 1185 Nutrition studies in Thailand. II. Effects of fortification of rice with lysine, threonine, thiamin, riboflavin, vitamin A, and iron on preschool children. *S. N. Gershoff, R. B. McGandy, D. Sutapreyasri, C. Promkulkao, A. Nondasuta, U. Pisolyabutra, P. Tantiwongse, and V. Viravaidhaya*

- 1196 book reviews

- 1200 announcements

Number 8, August 1977

Part I

Symposium on the Impact of Infection on Nutritional Status of the Host

- 1203 Introduction. *W. R. Beisel*
 1204 Impact of infection on nutritional status: introductory remarks. *I. Hornstein*
 1206 Impact of infection on nutritional status: definition of the problem and objectives of the Workshop. *W. R. Beisel*
 1211 The consequences of fever. *G. T. Keusch*
 1215 Effect of infection on food intake and the nutritional state: perspectives as viewed from the village. *L. J. Mata, R. A. Kromal, J. J. Urrutia, and B. Garcia*
 1228 Interaction of nutrition and infection in the hospital setting. *B. R. Bistrian*
 1233 Impact of infection on nutritional status: résumé of the opening discussion. *G. T. Keusch*
 1236 Magnitude of the host nutritional responses to infection. *W. R. Beisel*
 1248 Malabsorption associated with diarrhea and intestinal infections. *I. H. Rosenberg, N. W. Solomons, and R. Schneider*
 1254 Changes in body balances of nitrogen and other key nutrients: description and underlying mechanisms. *M. C. Powanda*
 1269 Key role of various individual amino acids in host response to infection. *R. W. Wannemacher, Jr.*
 1281 Infection and the development of kwashiorkor and marasmus in Africa. *R. G. Whitehead*
 1285 Adrenergic mechanisms in infection. III. α - and β -receptor blocking agents in treatment. *I. M. Smith, L. R. Kennedy, M. H. Regne-Karlsson, V. L. Johnson, and L. R. Burmeister*
 1289 Nutritional effects of salmonellosis in mice. *R. N. Moore, B. A. Johnson, and L. J. Berry*
 1294 Résumé of the discussion concerning the nutritional consequences of infection. *W. R. Beisel*
 1301 Energy balance and carbohydrate metabolism in infection and sepsis. *C. L. Long*
 1311 Fat metabolism in normal and abnormal states. *E. J. Masoro*
 1320 Lipid metabolism in infection. *G. L. Blackburn*
 1333 The measurement of rates of protein turnover, synthesis and breakdown in man and the effects of nutritional status and surgical injury. *J. C. Waterlow, M. Golden, and D. Picou*
 1340 Whole body protein synthesis and catabolism in septic man. *C. L. Long, M. Jeevanandam, B. M. Kim, and J. M. Kinney*
 1345 The relationship between dietary intake, weight change, nitrogen balance, and protein turnover in man. *M. Golden, J. C. Waterlow, and D. Picou*
 1349 Muscle protein catabolism in the septic patient as measured by 3-methylhistidine excretion. *C. L. Long, W. R. Schiller, W. S. Blakemore, J. W. Geiger, M. O'Dell, and K. Henderson*
 1353 The in vivo measurement of protein synthesis. *M. H. N. Golden and J. W. Waterlow*

- 1355 Impaired gluconeogenesis is extensively injured patients with gram negative bacteremia.
D. W. Wilmore
- 1357 Effect of inflammatory and noninflammatory stress on ketone bodies and free fatty acids in rats. *H. A. Neufeld, M. V. Kaminski, Jr., and R. W. Wannemacher, Jr.*
- 1359 Effects of pneumococcal infection on rat liver microsomal enzymes and lipogenesis by isolated hepatocytes. *P. G. Canónico, E. Ayala, W. L. Rill, and J. S. Little*
- 1364 Biochemically assisted antibiotic treatment of lethal murine *Staphylococcus aureus* septic shock. *I. M. Smith and L. F. Burmeister*
- 1369 Résumé of the discussion concerning energy-protein balances and responses. *C. L. Long*
- 1372 announcements
- 1373 erratum
- 1431 special announcement

symposium**Impact of Infection on Nutritional Status of the Host****part II**

- 1439 Sequential changes in body composition during infection: electron probe study IV.
B. L. Nichols, G. L. Bilbrey, C. F. Hazelwood, S. L. Kimzey, C. T. Liu, f. Viteri, J. Alvarado, and W. R. Beisel
- 1447 Treatment of diarrheal dehydration. *C. Sperotto, F. R. Carrazza, and E. Marcondes*
- 1457 A critique of oral therapy of dehydration due to diarrheal syndromes. *B. L. Nichols and H. A. Soriano*
- 1473 The impact of infection on vitamin metabolism: an unexplored area. *J. J. Vitale*
- 1478 Leukocyte electrolytes and sodium transport in protein energy malnutrition. *J. Patrick and M. Golden*
- 1482 Inappropriate secretion of antidiuretic hormone in children with bacterial meningitis.
R. D. Feigin and S. Kaplan
- 1485 Infection and iron metabolism. *E. D. Weinberg*
- 1491 Résumé of the discussion concerning electrolytes in infection. *B. L. Nichols*
- 1493 Nutritional assessment and support during infection. *G. L. Blackburn*
- 1498 Newer products and formulas for alimentation. *D. W. Wilmore, W. S. McDougal, and J. P. Peterson*
- 1506 An experience with total parenteral nutrition in children. *J. P. Keating, K. B. Schwarz, M. J. Bell, and J. L. Ternberg*
- 1510 Total body protein catabolism in starved and infected rats. *R. W. Wannemacher, Jr. and R. E. Dinterman*
- 1512 Specific metabolic effects imposed by *Streptococcus pneumoniae* upon the response to femoral fracture in the rat. *M. V. Kaminski, Jr., H. A. Neufeld, R. W. Wannemacher, Jr., M. L. Armstrong, and L. Strobel*
- 1514 The energy cost of repleteing tissue deficits during recovery from protein-energy malnutrition.
A. A. Jackson, D. Picou, and P. J. Reeds
- 1518 Failure of yellow fever immunization to produce a catabolic response in individuals fully adapted to a protein-sparing modified fast. *B. R. Bistrian, J. C. Winterer, G. L. Blackburn, and N. S. Scrimshaw*
- 1523 Failure of postoperative infection to increase nitrogen excretion in patients maintained on peripheral amino acids. *J. D. B. Miller, B. R. Bistrian, G. L. Blackburn, J.-P. Flatt, and M. Trerice*
- 1528 Effect of deep surgical sepsis on protein-sparing therapies and nitrogen balance.
J. D. B. Miller, G. L. Blackburn, B. R. Bistrian, H. Y. Rienhoff, and M. Trerice
- 1533 Résumé of the discussion on nutritional intervention during infection. *G. L. Blackburn*
- 1536 Effect of infection on nutrient requirement. *N. S. Scrimshaw*
- 1545 Protein and energy requirements of young children living in the developing countries to allow for catch-up growth after infections. *R. G. Whitehead*
- 1548 Résumé of the discussion concerning recommendations for dietary intake during infection.

R. D. Feigin

- 1553 Interaction of nutrition and infection: plans for future research. *R. D. Feigin*
1564 Impact of infection on nutritional status: concluding comments and summary. *W. R. Beisel*

1567 announcements**1568 book reviews**

Number 9, September 1977

letters to the editor

- 1375 Satiation by energy supply. *D. A. Booth*
1376 Response to letter from D. A. Booth. *J. R. Brobeck*
1376 Correction of error. *J. B. Wyman*
1377 Interferon production. *R. Edelman*
1377 Response to letter from R. Edelman. *L. Schlesinger*
1378 Increased folate excretion in acute hepatitis. *T. Tamuran and E. L. R. Stokstad*
1379 Intestinal regulation of hepatic cholesterol synthesis. *D. Shapcott*
1379 Response to letter from D. Shapcott. *C. L. Krumdieck*
1380 Effect of garlic on serum lipids, coagulability and fibrinolytic activity of blood. *R. C. Jain*

original communications

- 1382 Prediction of human nitrogen balance from food intake data. *M. Lautzenheiser and P. L. Pellett*
1390 Formazan cells in protein and protein-calorie malnutrition. *O. Felsenfeld and K. Gyr*
1393 Polymorphonuclear neutrophilic leukocytes in protein deficiency. *O. Felsenfeld and K. Gyr*
1398 Comparison of glucose and fructose tolerance before and after starvation. *H. Göschke, M. Nisoli, A. Leutenegger, and H. Thölen*

special article

- 1403 International Union of Nutritional Sciences.

perspectives in nutrition

- 1408 Clinical symptoms of biotin deficiency in animals. *D. Belnave*

nutrition survey

- 1414 Intakes and serum levels of protein and iron for 70 elderly women. *C. Jansen and I. Harrill*

international nutrition

- 1423 Effect of severe kwashiorkor on intellectual development among Nigerian children. *V. C. B. Nwuga*

Number 10, October 1977

guest editorial

- 1571 The value of polyunsaturated ruminant fat foods. *R. E. Hodges*

letters to the editor

- 1573 Prevalence of goiter in Canada. *T. K. Murray*
1574 The joule versus the calorie. *C. D. Eckhert*

original communications

- 1576 Time course study of the in vivo synthesis of avian liver pteroylpoly- γ -glutamates. *R. W. Thompson and C. L. Krumdieck*
1583 Alterations in the chain length of pteroylpoly- γ -glutamates and in the activity of pteroylpoly- γ -glutamate hydrolase in response to change in the steady state of one carbon metabolism. *R. W. Thompson, J. Leichter, P. E. Cornwell, and C. L. Krumdieck*
1591 The transketolase assay of thiamine in some diseases. *B. Kjøsen and S. H. Seim*
1597 Lactase deficiency—a comparative study of diagnostic methods. *C. Arvanitakis, G.-H. Chen, J. Folscroft, and A. P. Klotz*
1603 Calcium balance and calcium requirements in middle-aged women. *R. P. Heaney, R. R. Recker, and P. D. Saville*
1612 Nutritional supplementation—whom does it benefit most? *D. Hanumantha Rao and A. Nadamuni Naidu*
1617 Conversion of hydroxo(aquo)cobalamin to sulfitocobalamin in the absence of light; a reaction of importance in the identification of the forms of vitamin B₁₂, with possible clinical significance. *J. Farquharson and J. F. Adams*
1623 Are Eskimos more or less obese than other Canadians? A comparison of skinfold thickness and ponderal index in Canadian Eskimos. *O. Schaefer*
1629 Effect of large amounts of vitamin E during pregnancy and lactation. *M. M. Martin and L. S. Hurley*
1638 Effect of covert nutritive dilution on the spontaneous food intake of obese individuals: a pilot study. *K. P. Porikos, G. Booth, and T. B. Van Itallie*
1645 Hematological and immunological effects of excess dietary leucine in the young rat. *Ph. Chevalier and A. Aschkenasy*
1655 A comparison of three defined formula diets in normal volunteers. *S. McCamman, P. L. Beyer, and J. B. Rhodes*
1661 Some effects, in baboons, of chronic ingestion of glycerol with sucrose or glucose. *I. Macdonald and A. Keyser*
1670 Essential fatty acid deficiency induced by total parenteral nutrition and by medium-chain triglyceride feeding. *H. Hirono, H. Suzuki, Y. Igarashi, and T. Konno*
1677 Vitamin B₆ deficiency in cancer patients. *C. Potera, D. P. Rose, and R. R. Brown*
1680 Chemical interactions between thiamin and tannic acid I. Kinetics, oxygen dependence and inhibition by ascorbic acid. *K. Rungruangsak, P. Tosukhowong, B. Panijpan, and S. L. Vimokesant*
1686 Chemical interactions between thiamin and tannic acid II. Separation of products. *T. Kositawattanakul, P. Tosukhowong, S. L. Vimokesant, and B. Panijpan*
1692 Effect of repeated food restriction-refeeding on growth rate and weight. *B. Szepesi and M. G. Epstein*
1703 Factors responsible for weight loss in tropical sprue. *F. A. Klipstein and J. J. Corcino*
1709 Plasma free amino acid levels in human subjects after meals containing lactalbumin, heated lactalbumin, or no protein. *D. A. Vaughan, M. Womack, and P. E. McClain*
1713 Acute erythroid hypoplasia in malnourished infant squirrel monkeys fed isolated soy protein. *L. M. Ausman, D. L. Gallina, B. M. Camitta, L. C. Flath, and D. M. Hegsted*
1721 Binding of zinc and iron to wheat bread, wheat bran, and their components. *F. Ismail-Beigi, B. Faraji, and J. G. Reinhold*

perspectives in nutrition

- 1726 The public health significance of fat-modulated ruminant foods. *P. F. Heywood*

nutrition survey

- 1734 Early malnutrition and "late" adoption: a study of their effects on the development of Korean orphans adopted into American families. *N. M. Lien, K. K. Meyer, and M. Winick*

international nutrition

- 1740 Energy expenditure, productivity, and physical work capacity of sugarcane loaders. *G. B. Spurr, M. G. Maksud, and M. Barac-Nieto*

- 1747 announcements

- 1748 erratum

Fourth International Symposium on Intestinal Microecology

- 1753 Bicentennial overview of intestinal microecology. *T. D. Luckey*
1762 Oxygen tolerance of human intestinal anaerobes. *R. D. Rolfe, D. T. Hentges,
J. T. Barrett, and B. J. Campbell*
1770 Sulfate-reducing anaerobic bacteria in human feces. *H. Beerens and C. Romond*
1777 Specific adhesion of lactobacilli to keratinized epithelial cells of the rat stomach in vitro. *Y. Kawai and N. Suegara*
1781 Fecal microbial flora in Seventh Day Adventist populations and control subjects. *S. M. Finegold, V. L. Sutter, P. T. Sugihara, H. A. Elder, S. M. Lehmann, and R. L. Phillips*
1773 Ecological concepts of the anaerobic flora in the avian intestine. *E. M. Barnes*
1799 Ecology of the bifidobacteria. *T. Mitsuoka and C. Kaneuchi*
1811 The enteric flora in childhood disease—diarrhea. *F. Litshitz*
1819 The role of the intestinal microflora in experimental colitis. *H. B. Onderdonk,
J. A. Hermos, and J. G. Bartlett*
1826 The influence of gastric surgery on the intestinal flora. *H. B. Greenlee, S. M. Gelbart,
A. J. DeOrio, D. S. Francescatti, J. Paez, and G. F. Reinhardt*
1834 Viral infections during pregnancy and in early life. *L. Mata, J. J. Urrutia, G. Serrato,
E. Mohs, and T. D. Y. Chin*
1843 Development of local immunity. *R. Ganguly and R. Waldman*
1851 Infectious enteric viruses of neonatal animals. *C. A. Mebus*
1857 Viral agents associated with acute gastroenteritis in humans. *R. G. Wyatt and
A. Z. Kapikian*
1871 Enteric resistance and coxsackievirus. *B. S. Kibrick and R. M. Loria*
1876 Pathophysiological aspects of coxsackievirus B intestinal infection. *R. M. Loria, S. Kibrick,
and S. A. Broitman*
1880 Microbial effects on mucosal structures and function. *G. D. Abrams*
1887 Reconvalescence following antibiotic decontamination in man and animals. *D. van der Waaij, J. M. Vossen, C. K. Altes and C. Hartgrink*
1896 Gnotobiotic human infants. *R. Wilson and A. Mastromarino*
1904 Protected environments and microbial suppression in cancer therapy. *M. J. Keating,
V. Rodriguez, and G. P. Bodey*
1911 Clinical gnotobiotics. *V. M. Young and M. R. Moody*
1921 Properties on the Ames salmonella mutants lodged in the gastrointestinal tract of gnotobiotic rats. *P. Goldman, L. A. Wheeler, J. H. Carter, J. A. Ingelfinger, and F. B. Soderberg*
1927 announcements

Number 12, December 1977

Presidential address

- 1929 The "pure" clinical nutritionist: an endangered species. *T. B. Van Itallie*

Letters to the editor

- 1935 Hemoglobin differences between blacks and whites. *I. M. Hoobler and H. A. Hunscher*
1935 Reply to Hoobler and Hunscher. *S. M. Garn, H. A. Shaw, P. E. Cole, G. M. Owen, and K. McCabe*
1937 Correction of error. *P. B. Acosta*
1938 Dental caries reduction from dietary changes. *A. R. P. Walker and P. E. Cleaton-Jones*
1939 Validity of 24-hr dietary recall. *G. G. Graham*
1940 Reply to letter by Graham. *H. A. Guthrie, V. Guzman, and G. M. Guthrie*
1941 Problems with nitrogen balance. *G. G. Graham*
1942 Reply to letter by Graham. *M. K. Korslund, C. Kies, and H. M. Fox*

Original communication

- 1944 Effect of moderate malnutrition on concentration of immunoglobulins and enzymes in tears and saliva of young Colombian children. *D. N. McMurray, H. Rey, L. J. Casazza, and R. R. Watson*
1949 Metabolic correlates of immune dysfunction in malnourished children. *M. Das, E. R. Siehsm, T. Borut, and S. A. Feig*
1953 Endocrine and metabolic alterations with food and water deprivation. *P. A. Lee, J. D. Wallin, N. Kaplowitz, G. L. Burkhardtmeier, J. P. Kane, and S. B. Lewis*
1963 Fasting (acute energy deprivation) in man: effect on blood coagulation and fibrinolysis. *N. Egberg, C. Kockum, and J. Palmlad*
1968 Retinol-binding protein in serum of xerophthalmic, malnourished children before and after treatment at a nutrition center. *G. Venkataswamy, J. Glover, M. Cobby, and A. Pirie*
1974 Chromosomal abnormalities in protein-calorie malnutrition. *R. Gupta, M. Gupta, and I. N. Ramdeo*
1979 Pharmacokinetic study of antipyrine in malnourished children. *R. K. Narang, S. Mehta, and V. S. Mathur*
1983 Effect of isometric exercises on body potassium and dietary protein requirements of young men. *B. Torún, N. S. Scrimshaw, and V. R. Young*
1994 Effects of systemic bacterial infection on absorption rates of L-histidine and glycylglycine from the human jejunum in vivo. *G. C. Cook*
1999 Effect of autoclaving of a lactose-containing diet on cholesterol and bile acid metabolism of conventional and germ-free rats. *B. S. Wostmann, M. Beaver, L. Chang, and D. Madsen*
2006 Influence of diet on trans fatty acids in human milk. *J. M. Aitchison, W. L. Dunkley, N. L. Canolty, and L. M. Smith*
2016 The effect of kind of carbohydrate in the diet and use of oral contraceptives on metabolism of young women. I. Blood and urinary lactate, uric acid and phosphorus. *J. L. Kelsay, K. M. Behall, P. B. Moser, and E. S. Prather*
2023 Vitamin b₆ and 4-pyridoxic acid of children. *J. S. Lewis and K. P. Nunn*
2028 Reaction of tetrahydrofolic acid with cyanate from urea solutions: formation of an inactive folate derivative. *K. T. Francis, R. W. Thompson, and C. L. Krumdieck*
2033 Sodium and potassium intakes and excretions of normal men consuming sodium chloride or a 1:1 mixture of sodium and potassium chlorides. *O. Mickelsen, D. Makdani, J. L. Gill, and R. L. Frank*
2041 Intestinal calcium-binding protein 3 months after massive small bowel resection in the piglet. *A. Margolis, C. Ricour, A. Harouchi, M. Guyot, D. Laouari, and S. Balsam*
2047 Evaluation of hair analysis for determination of zinc status using rats. *S. B. Demming and C. W. Weber*
2053 Glucose tolerance, insulin secretion, and glucose utilization in subjects after gastric surgery. *S. B. Leichter, A. C. Arnold, S. B. Lewis*
2061 Effect of alfalfa saponins on intestinal cholesterol absorption in rats. *M. R. Malinow, P. McLaughlin, L. Papworth, C. Stafford, G. O. Kohler, A. L. Livingston, and P. R. Cheeke*

- 2068 Clofibrate-induced changes in glucagon and insulin secretion in patients with angiographically documented coronary artery disease. *R. P. Eaton, D. S. Schade, and R. Lueker*
2078 Intravenous feeding of the rat with short chain fatty acid esters. I Glycerol monobutyrate. *R. H. Birkhahn, R. H. McMenamy, and J. R. Border*

comments in biochemistry

- 2083 Urea biosynthesis I. The urea cycle and relationships to the citric acid cycle
G. E. Shambaugh, III

perspectives in nutrition

- 2088 Menarche and growth. *B. D. Richardson and L. Pieters*

nutrition survey

- 2092 Nutrient intake and serum lipids in urban and rural Puerto Rican men.
M. R. Garcia-Palmieri, J. Tillotson, E. Cordero, R. Costas, Jr., P. Sorlie, T. Gordon, W. B. Kannel, and A. A. Colon
2101 Assessing the anthropometric status of Hawaii's preschoolers participating in feeding programs in day care centers. *B. R. Standal and M. F. Tiangha*

methods in nutrition

- 2108 Automated and manual determination of N¹-methylnicotinamide in urine. *O. Pelletier and R. Brassard*

international nutrition

- 2117 Parotid enlargement, forehead edema, and suppression of malaria as nutritional consequences of ascariasis. *M. J. Murray, A. B. Murray, M. B. Murray, C. J. Murray*
2122 Serum uric acid level of Thai individuals in comparison with the nutritional status and some other physical and biochemical parameters. *P. Pongpaew, S. Saovakontha, F. P. Schelp*

2126 announcements**2128 book reviews****2132 errata****2135 subject index****2152 author index**

